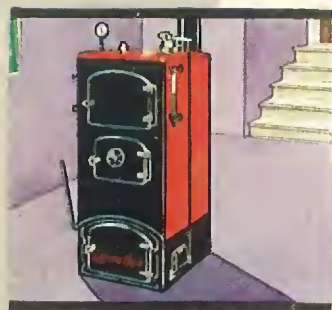
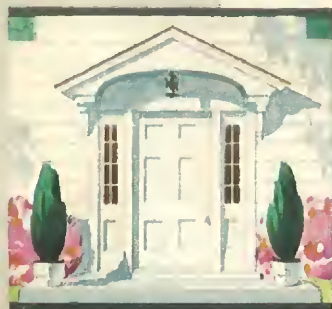


*It costs so little at **WARD'S** to  
modernize your home **INSIDE and OUT!***



5TH EDITION

*Ward's Complete Catalog of*  
**PLUMBING • HEATING**  
**BUILDING MATERIALS**

**MONTGOMERY WARD**



# NEW WAYS TO BRING COMFORT AND CHARM TO YOUR HOME

*see how little all of them cost*

GO THROUGH this interesting book right now! See the wonderful improvements it suggests for your home . . . a new entrance door . . . an inviting stairway . . . French windows . . . every room sparkling with the gaiety and charm of color . . . even the heating plant wearing a festive red jacket. Get out your pencils—start planning now—see what big things you can do for a little money.

As you turn the pages be sure to see our free planning service and the liberal terms of easy payments that make it so easy to do the things you want to do . . . *right now!*



## . . . Colonial Stairway

This stairway is typical of the lovely ones you see in old New England homes. Notice its slender newel posts, well turned balusters and graceful hand rail. Everything to duplicate this stairway in your own home is shown on Pages 80-81.



## . . . Distinction

The rounded top, hammered-pattern hardware and many-paned light give friendliness to this entrance door. See it on Page 56.

## . . . Colonial

Corner cupboards have a charm all their own. This one provides a place for your finest china and has storage space besides. See Page 84.

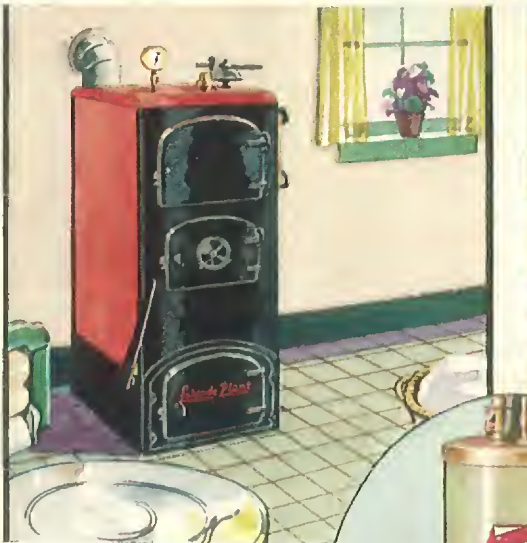


## . . . Breakfast

in this sunny alcove will start your day off exactly right. Easy to build! See Page 83.

## . . . See Yourself

full length in this long plate glass mirror! It's a simple matter to put one in any door. Read about it on Page 62.

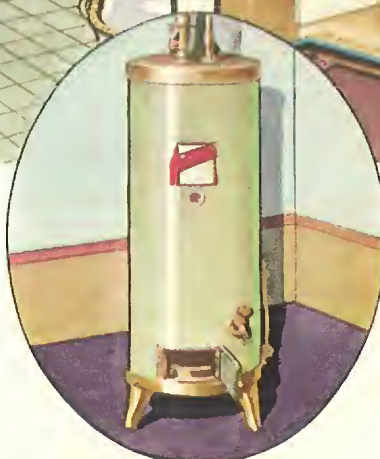


## . . . Modern Heating

Behind its smart red enamel jacket this boiler gives you the latest improvements in hot water or steam boiler design. See it on Pages 48 and 50.

## . . . Plenty of Hot Water

at any hour of the day or night, with this modern automatic gas water heater. See how inexpensively you can install this convenience in your home—Pages 32, 33 and 34.



## The Charm of French Doors

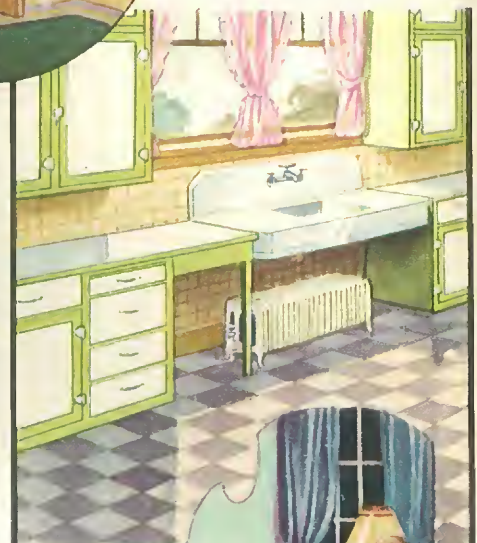
Use them between adjoining rooms or to open onto porch or terrace. An inexpensive way to add interest and beauty to any room. See them on Page 64.

## . . . The Modern Kitchen

includes plenty of built-in cupboards and a shiny porcelain sink. See Pages 82, 83, 18 and 19. The radiator goes under the sink to save space. Page 53.

## . . . Copper Radiation

Here's the very newest thing in radiators. They may be set into the wall or cleverly concealed under a window. Read about them on Page 52.





# WHERE TO FIND THINGS

# Quickly

	Pages
<b>DOMESTIC WATER</b> ...Heaters...Range Boilers... Tanks... Water Softeners...	32-35
<b>HEATING</b> ... Boilers... Furnaces... Gas-Oil Burners... Pipe and Fittings... Radiators...	36-54
<b>INSULATION</b> ... Rock Wool... Cel-Board... Felt... Paper... Sheathing... Wallboard...	90-93

	Pages
<b>LUMBER</b> ... Ceiling... Closet Lining... Flooring... Panels... Siding... Tile...	87-89
<b>MILLWORK</b> ... Built-In Conveniences... Colonnades... Doors... Glass... Porch Material... Sash... Screens... Stairways Trim and Moulding... Windows...	56-85
<b>PLUMBING</b> ... Bathroom Outfits... Closets and Seats... Lavatories... Pipe and	

	Pages
Fittings... Showers and Curtains... Sinks... Tubs...	4-23
<b>ROOFING</b> ... Asphalt... Nails... Ridge and Valley Strips... Shingles... Siding...	94-96
<b>RUNNING WATER</b> ... Automatic Water Systems... Deep and Shallow Well Pumps... Pump Supplies...	24-31

## OTHER USEFUL INFORMATION

	Pages
Budget Plan of Monthly Payments....	3
Engineering and Estimating Service.....	4, 5, 24, 25, 36
How to Figure Transportation Charges	2

	Pages
How to Measure and Order Pipe.....	21
How to Order Pumps and Water Systems...	24, 25
How Much Does a Plumbing System Cost?..	4
What Kind of Water System Should I Buy?..	24, 25
How to Plan for Running Water.....	24, 25

	Pages
What Type of Heating Should I Buy?.....	37, 46, 47
What You Need for Deep Well Outfits.....	28

# COMPLETE INDEX of everything you need for modernizing your home

	Pages
<b>AIR</b> Moisteners.....	41, 53
Air Valves.....	54
Asbestos Blocks.....	53
Asbestos Cement.....	53
Asbestos Paper.....	53, 92
Ash Dumps.....	89
Asphalt Roofing.....	94-96
Asphalt Shingles.....	96
Asphalt Siding.....	96
Astragals.....	79
Attic Sash.....	72
Augers, Closet and Sewer.....	11
<b>BALUSTERS</b> .....	79, 81
Barn Sash.....	72
Baseboards.....	78
Bathroom Fixtures.....	9
Bathroom Outfits.....	6-8, 13
Bathrooms.....	14, 15
Battens, Barn.....	79
Bending Tools.....	23
Blind Stops.....	78
Blowers and Air Filters.....	41
Boilers, Heating.....	48-50
Boilers, Range.....	33, 34
Boiler Liquid.....	54
Bolts, Stair Rail.....	81
Bookcases, Built-In.....	84
Breakfast Nooks, Built-In.....	83
Bronze Paint.....	53
Budget Plan.....	3
Buflits, Built-In.....	84
Built-In Conveniences.....	82-84
<b>CALKING</b> Irons.....	29
Candle Wicking.....	21
Cardboard.....	92
Carpet Strip.....	78
Casement Sash and Frames.....	65
Casing, Door and Window.....	78
Ceiling, Beaded.....	88
Ceiling Cornice.....	78
Ceiling Plates.....	54
Cel-Board.....	93
Cellar Pumps.....	28
Cellar Sash.....	72
Cement, Waterproof.....	86
Centrifugal Pumps.....	27, 31
Cistern Covers.....	30
Chair Rail.....	86
Chemical for Closets.....	29
Closets, Built-In.....	82
Closets, Chemical.....	29
Closets, Water.....	10, 11
Closet Bowls and Tanks.....	10
Closet Lining.....	89
Closet Outfits.....	10, 11
Closet Seats.....	11
Closet Supplies.....	11
Cold Air Pipe and Fittings.....	45
Collars, Furnace.....	44, 45
Colonnades.....	84
Columns, Porch.....	79
Copper Radiation.....	52
Copper Tubing.....	23

	Pages
Couplings and Unions, Pipe.....	21-23
Cupboards, Built-In.....	82-84
Cylinders, Pump.....	30
<b>DAIRY</b> Sash.....	72
Dampers, Fireplace.....	89
Dampers, Furnace.....	44-45
Damper Regulators.....	45, 54
Deep Well Pumps.....	28, 30, 31
Deep Well Supplies.....	28
Desk and Bookcases.....	84
Dinette Sets, Built-In.....	83
Doors, Ashpit.....	89
Doors, Buffet.....	83
Doors, Cabinet.....	83
Doors, Closet.....	83
Doors, Coal Chute.....	89
Doors, Combination.....	56, 69
Doors, Cupboard.....	83
Doors, Exterior.....	56-61, 66, 69
Doors, French.....	64
Doors, Garage.....	85
Doors, Interior.....	62-64, 83
Doors, Mirror.....	62
Doors, Screen.....	68, 69, 56
Doors, Storm.....	66, 69, 56
Doors, Terrace.....	64
Door and Window Stops.....	78
Door Frames.....	56, 64, 74
Door Hardware.....	56, 64
Door Trim.....	75
Drain Pipe Solvent.....	20
Drainage Fittings.....	22
Drainboards.....	19
<b>EAVES</b> Troughs and Supplies —See Our General Catalog.	
Elbows, Furnace.....	44, 45, 54
Elbows, Pipe.....	21-23, 29
Expansion Tanks.....	54
<b>FAUCETS</b> and Supplies	
Felts, Building.....	12, 18, 20, 23
Felts, Deadening.....	91
Flanging Tools.....	23
Floor Drains.....	22
Floor Tile.....	86
Flooring.....	89
Flue Brushes.....	54
Flush Valves, Closet.....	10
Force Cups.....	11
Force Pumps.....	30, 31
Frames, Cellar Sash.....	77
Frames, Door.....	56, 64, 74
Frames, Sash.....	65
Frames, Screen.....	69
Frames, Sidelight.....	64
Frames, Window.....	76, 77
Frames, Window—Brick, Stone or Stucco—Write for Special Prices.	
Freight Rates.....	2

	Pages
French Doors.....	64
French Door Frames.....	64
French Windows.....	65
French Window Frames.....	65
Furnaces.....	36-50
Furnaces, Gasoline Blast.....	21
Furnace Registers.....	45
<b>GALVANIZED</b> Sheets.....	45
Gas Water Heaters.....	33
Glass, Window.....	73
<b>HALL</b> Sash.....	72
Hardware.....	56, 64
Heat Controls.....	33
Heater Regulators, Water.....	35
Heaters, Tank.....	39
Heating Coils, Water.....	49
Heating Plants.....	38-50
Hot Bed Sash.....	72
Hot Water Boilers.....	48-50
Hot Water Heaters.....	32-35
How to Order.....	2
Humidifiers, Furnace.....	41, 53
Hydraulic Rams.....	31
<b>INSULATING</b> Blocks.....	53
Insulating Paper.....	91
Insulation.....	92, 93
Ironing Boards, Built-In.....	84
<b>JAMBS</b> , Door.....	74
<b>KITCHEN</b> Cabinets.....	82
Kitchen Cases.....	82
Kitchen Sinks.....	16-19
Kroma-Tyle.....	86
<b>LANDING</b> Treads.....	80
Lap-Cap Fasteners.....	91
Lattice.....	79
Laundry Tubs.....	18
Lavatories.....	12, 13
Lead Wool.....	21
Lift Pumps.....	30, 31
Lock Sets, Door.....	56, 64
Lock Shingles.....	96
Lumber.....	88, 89
<b>MALLEABLE</b> Iron Fittings.....	21
Medicine Cabinets.....	29
Moulding and Trim.....	78, 79
<b>NATIONAL</b> Housing Act.....	3
Newels.....	79, 81
Nipples, Pipe.....	21, 23
Nosing, Stairway.....	80
<b>OIL</b> Burners.....	50
Oil Storage Tanks.....	32, 50

	Pages
<b>PACKAGE</b> Service Doors.....	86
Packing, Graphited.....	21
Paper, Building.....	91
Parting Stops.....	78
Pig Lead.....	21
Pipe and Fittings, Brass.....	23
Pipe and Fittings, Furnace.....	44, 45, 54
Pipe and Fittings, Galvanized.....	21
Pipe and Fittings, Smoke.....	45
Pipe and Fittings, Soil.....	22
Pipe and Fittings, Steel.....	21
Pipe and Fittings, Water.....	21, 23
Pipe Covering.....	53
Pipe Plugs.....	22
Plugs, Lavatory.....	20
Plumbing Ware.....	6-23, 32-35
Porch Enclosure Sash.....	67
Porch Materials.....	79
Pressure Gauges.....	28, 54
Pressure Relief Valves.....	28, 34, 54
Pumps, Electric.....	26-28
Pumps, Gasoline.....	31
Pumps, Hand.....	30, 31
Pump Supplies.....	28, 30
<b>RADIATORS</b> , Heating.....	52, 53
Radiator Paint.....	53
Radiator Supplies.....	54
Rails, Porch.....	79
Rails, Stair.....	81
Range Boilers—Fittings.....	32-34
Registers.....	45
Register Boxes.....	44
Ridge Strips.....	91
Rockwool Insulation.....	92, 93
Rods, Pump.....	28, 30
Roofing.....	94-96
Roofing Nails.....	91
Rope Oakum.....	21
Rotary Pumps.....	31
<b>SASH</b> .....	65-67, 72
Sash Frames.....	65
Sash Hardware.....	64
Sash Weights.....	71
Screens, Window.....	68, 69
Screen Doors.....	68, 69, 56
Screen Material, Window.....	69
Septic Tanks.....	29
Sheathing, Building.....	91
Shingles.....	96
Shingle Nails.....	91
Shipping Information.....	2
Showers and Curtains.....	13-15
Shower Fittings.....	13-15
Shutters, Window.....	72
Sidelights.....	57, 64
Sidelight Frames.....	64
Siding, Brick.....	96
Siding, Fire Drop.....	89
Sinks, Kitchen.....	16-19
Sinks and Pump Outfits.....	18

	Pages
Sink Backs.....	19
Sink Legs.....	18
Sink Strainers.....	19, 20
Slip Nuts With Washer.....	20
Smoke Pipe and Fittings.....	44, 45
Soap Dishes, Bathroom.....	9
Solder, Wiping.....	21
Special Catalogs.....	55
Spout Attachments, Pump.....	30
Stair Material.....	80, 81
Stairways.....	80, 81
Starting Steps and Risers.....	80
Steam Boilers.....	47-50
Steam Fittings.....	22
Stokers, Furnace.....	51
Stool, Window.....	78
Stools, Bathroom.....	9
Stopcocks.....	23
Storm Doors.....	66, 69, 56
Storm Sash.....	66, 67
Storm Windows.....	66
Strips, Building.....	21
Supply Pipes.....	20
<b>TANKS</b> .....	26-29, 32-35, 54
Tank Heaters.....	32-35
Tape, Joint.....	90
Tees, Pipe.....	21-23
Thermometers, Hot Water.....	54
Threshold, Hardwood.....	79
Tile.....	86, 87
Toilets, Water.....	10, 11
Tools, Plumbing.....	23
Transom Lights.....	72
Traps, Plumbing.....	9, 20, 22, 29
Trim, Door.....	75
Trim, Exterior.....	79
Trim, Interior.....	78
Trim, Mission.....	75
Trim, Window.....	75
<b>VALLEY</b> Strips.....	91
Valves, Heating.....	34, 54
Valves, Plumbing.....	10, 11, 23, 28, 30
Vapor Accessories.....	54
Vapor Boilers.....	47, 50
Virgin Lead.....	21
<b>WALL</b> Paper Catalog Coupon.....	55
Wall Tile.....	86
Wallboard.....	90, 92, 93
Wash Bowls.....	12, 13
Water Heaters.....	32-35
Water Softener.....	35
Water Systems.....	24-28, 31
Well Borers.....	31
Well Cylinders.....	30
Well Points.....	30
Windows.....	70, 71, 66, 67
Windows, French.....	63
Wrenches.....	29



# TRANSPORTATION COSTS ARE LOW

Wherever you live—whatever you buy—Wards serve you easily, quickly and economically. We carry large stocks in warehouses in all parts of the country and always ship from the point *nearest* you. You select from our

convenient catalog what you need in equipment and materials, make out an order and mail it. Wards do the rest and you receive your supplies promptly and at the lowest costs.

## HOW TO ORDER FROM THIS CATALOG

Use our regular order blank or any plain piece of paper. Be sure to give the numbers as listed in the catalog, also sizes and amounts required. In giving dimensions *always give widths before lengths.*

**How to Send Money.** Send remittance in the form of postoffice or express money order, bank draft, or personal check. If you send money, be sure to send it by *registered* mail, securely folded in heavy paper. If you live on a rural route, you can pay the money to your mail carrier. He will buy the money order and enclose it with your letter. *Regular terms* are cash with order, unless you take advantage of our Budget Plan . . . See Page 3.

**Sizes and Grades** given in this book have been adopted by the Manufacturers' Associations as the official standards.

**C.O.D. Shipments:** On orders of \$50.00 or more we will accept a remittance of one-fourth cash, balance C.O.D. We do not recommend this, as it means a little delay

and a little extra expense to you. Be sure to arrange to take care of balance when shipment arrives, and tell us the name of bank through which you desire collection to be made.

**Bank Guarantee:** We will also ship orders of \$50.00 or more on receipt of a letter from your bank stating that the money will be paid within five days of receipt of shipment.

**Building and Loan Associations** usually require a certain amount of construction work to be done before paying over any money to the builder. Write us for information and tell us just what your problem is.

**Freight charges** amount to little. Each item is packed so as to take the lowest classification. The weight of each item is given in the description, and at left you will find a schedule of freight rates showing the Estimated Freight Charges per 100 lbs.

Write us for shipping instructions before returning merchandise.



## HOW TO FIGURE FREIGHT CHARGES

It is most economical to ship by freight, especially if your order amounts to 50 lbs. or more. Most railroads make a minimum charge for shipments up to 100 lbs. Over 100 lbs. the charge is based on actual weight only. In most cases the lowest freight charge will be 50c.

**EXAMPLE:** Suppose you live about 200 miles from the shipping point and order a Pumping Plant weighing 250 lbs. By referring to the table below you will find the charge per 100 lbs. on a Pumping Plant is 71c. Multiply 71c by 2½ and you get \$1.78, the approximate charge.

We pack all goods to assure the lowest possible freight charge and the safe delivery of your order. These charges are based on rates in effect at time this catalog was printed and are subject to change without notice.

Freight Charges per 100 Lbs. For Distances of	100 Miles	200 Miles	300 Miles	500 Miles	750 Miles
Air Registers.....	45c	60c	70c	\$1.04	\$1.20
Bathroom Outlets.....	54c	71c	87c	1.27	1.46
Bath Tubs.....	62c	82c	\$1.02	1.49	1.72
Boilers, Cast Iron Heating.....	34c	46c	.49	.75	.86
Boiler Parts.....	34c	46c	.49	.75	.86
Building Papers.....	37c	49c	.51	.75	.86
Cement, Asbestos.....	37c	49c	.51	.75	.86
Closets, Chemical.....	54c	71c	1.02	1.49	1.72
Closets, Sanitary.....	45c	60c	.70	1.04	1.20
Disinfectant.....	45c	60c	.70	1.04	1.20
Doors, Wood Panel.....	45c	60c	.70	.82	.95
Doors, Combination.....	62c	82c	.87	1.27	1.46
Doors, Glazed.....	62c	82c	.84	1.04	1.20
Flooring, Hardwood.....	31c	46c	.49	.60	.68
Frames, Door and Window, K.D.....	45c	60c	.62	.75	.86
Furnaces.....	45c	60c	.62	.75	.86
Furnace Fittings.....	45c	60c	.62	.75	.86
Garage Door Hardware.....	45c	60c	.70	1.04	1.20
Gas Burners.....	54c	71c	.87	1.27	1.46
Glass.....	45c	60c	.70	1.04	1.20
Hardware.....	45c	60c	.87	1.27	1.46
Interior Trim, K. D.....	45c	60c	.62	.75	.86
Ironing Boards.....	54c	71c	.87	1.27	1.46
Lavatories.....	45c	60c	.87	1.27	1.46
Laundry Tubs, Composition.....	45c	60c	.70	1.04	1.20
Lumber.....	34c	46c	.49	.59	.69
Mill Work, K. D.....	45c	60c	.62	.75	.86
Oil Burners.....	54c	71c	.87	1.27	1.46
Oil Storage Tanks and Drums.....	62c	82c	1.02	1.49	1.72
Pipe and Fittings, Iron, Steel.....	25c	31c	.41	.59	.69
Pipe and Fittings, Brass.....	45c	60c	.87	1.27	1.46
Pumping Plants.....	54c	71c	1.02	1.49	1.72
Pumps, Hand.....	45c	60c	.70	1.04	1.20
Pumps, Power.....	54c	71c	.87	1.27	1.46
Pump Parts.....	45c	60c	.70	1.04	1.20
Radiators, Cast Iron Heating.....	34c	46c	.49	.75	.86
Rams, Hydraulic.....	54c	71c	.87	1.27	1.46
Range Boilers, With Heaters.....	45c	60c	.87	1.27	1.46
Range Boilers, Without Heaters.....	45c	60c	.70	1.04	1.20
Roofing, Asphalt Roll.....	37c	49c	.51	.75	.86
Sash, Glazed.....	62c	82c	.84	1.04	1.20
Sash, Not Glazed.....	54c	71c	.84	1.04	1.20
Sash, Storm.....	62c	82c	.84	1.04	1.20
Sash Weights.....	25c	31c	.41	.59	.69
Screens, Door and Window.....	62c	82c	1.02	1.49	1.72
Septic Tanks.....	62c	82c	1.02	1.49	1.72
Shingles, Asphalt.....	37c	49c	.51	.75	.86
Shutters and Blinds.....	54c	71c	.73	.75	.86
Sinks.....	45c	60c	.87	1.27	1.46
Tanks, Galvanized.....	62c	82c	1.02	1.49	1.72
Tile, Kroma.....	45c	60c	.87	1.27	1.46
Tile, Clay.....	37c	49c	.51	.75	.86
Tubing, Copper.....	45c	60c	.87	1.27	1.46
Wallboard and Col-Board.....	45c	60c	.62	.75	.86
Water Closet Bowls.....	45c	60c	.70	1.04	1.20
Water Closet Tanks.....	45c	60c	.70	1.04	1.20
Water Heaters, Automatic.....	54c	71c	.87	1.27	1.46
Water Heaters, Electric.....	62c	82c	1.02	1.49	1.72
Water Heaters, Gas, Gasoline, Oil.....	54c	71c	.87	1.27	1.46
Water Softeners.....	54c	71c	.84	1.04	1.20
Water Tank Heaters.....	45c	60c	.62	.75	.86
Well Drilling Hand Auger.....	45c	60c	.70	1.04	1.20
Windows, Glazed.....	62c	82c	.84	1.04	1.20



## HOW TO FIGURE PARCEL POST RATES

Packages weighing 8 ounces or less may be mailed anywhere in the U. S. at these rates:

2 ounces or less	3 or 4 ounces	5 or 6 ounces	7 or 8 ounces
1½c	3c	4½c	6c

Packages weighing more than 8 ounces go according to the pound rates to your Zone, as shown in table below. The Post Office counts any part of a pound as a full pound.

**EXAMPLE:** 3 lbs. 8 oz. counts as 4 lbs.

Shipping Weight	Local Zone	Zones 1 & 2 Not Over 150 Miles	Zone 3 151 to 300 Miles	Zone 4 301 to 600 Miles	Zone 5 601 to 1000 Miles
1 Lb.	7c	8c	9c	10c	11c
2 Lbs.	8c	10c	11c	14c	17c
3 Lbs.	8c	11c	13c	17c	22c
4 Lbs.	9c	12c	15c	21c	27c
5 Lbs.	9c	13c	17c	24c	33c
7 Lbs.	10c	15c	21c	31c	43c
10 Lbs.	12c	18c	27c	42c	59c
15 Lbs.	14c	24c	37c	59c	86c
20 Lbs.	17c	29c	47c	77c	\$1.12
25 Lbs.	19c	35c	57c	94c	1.39

Packages weighing not more than 70 lbs. and measuring not more than 100 inches (length plus girth at widest point, combined) may be mailed to all Zones.

**IMPORTANT!** We do not prepay postage on any merchandise in this book. If the article is mailable and you wish it sent by Parcel Post, include the necessary amount of postage with your order. If you send more postage than is necessary, the difference will be refunded to you. For postage rates over 25 lbs. see Wards General Catalog.



## HOW TO FIGURE EXPRESS CHARGES

For quick delivery of an unavailable order, have it shipped by express. You can estimate charges easily from the table below.

**EXAMPLE:** Suppose your order weighs 20 lbs. and you live 290 miles from shipping point. Look down 300 Miles column for the 20 Pounds line. 77c is the amount.

For Distances of	50 Miles	150 Miles	300 Miles	500 Miles	750 Miles
Package Not Over					
5 pounds	39c	41c	45c	48c	52c
10 pounds	43c	48c	56c	62c	69c
15 pounds	47c	54c	66c	75c	86c
20 pounds	51c	61c	77c	89c	\$1.03
25 pounds	55c	67c	87c	\$1.02	1.20
35 pounds	63c	80c	\$1.08	1.29	1.54
45 pounds	71c	93c	1.29	1.56	1.88
55 pounds	79c	\$1.06	1.50	1.83	2.22
75 pounds	95c	1.32	1.92	2.41	2.90
95 pounds	\$1.11	1.58	2.34	2.96	3.58
100 lbs. and over, rate per 100 lbs.	1.15	1.65	2.45	3.05	3.75



# Modernize Now- Pay Later

## Make Your N. H. A. Loan Go Farther Wards Save You 15 to 35% on Your Building Materials

These are actual prices now being asked—Wards prices and those usually asked—for standard quality building materials.

1—A complete hot water heating plant, including boiler, radiators, all pipes and fittings. Wards price is as low as \$195. Usually sells for \$235. A clear saving of \$40.

2—All materials needed to turn an average size (6 by 10 ft.) open porch into a cozy sunroom. Wards price, \$30. These same materials usually cost from \$35.00 to \$40.00.

3—A complete new slate surface asphalt roof. At Wards, \$27.75. The price usually asked, \$37.50.

Think what savings like THAT amount to! It gives your National Housing Act Loan at least one-third more purchasing power. Or, better still, enables you to make a much smaller loan—a big saving both on principal and interest.

### Wards Engineers Will Help You Plan

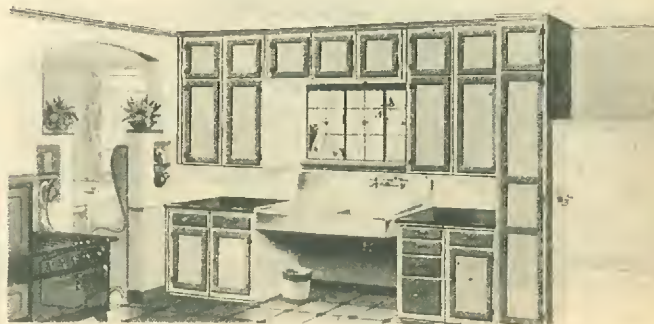
We will gladly send you full information about the new National Housing Act Home Modernization Plan if you have not already received Wards explanatory folder on the NHA. We will help you to determine the cost of the materials you need.

Write us before you go forward with your plans. Our engineers, all men of skill and experience, will give you sound, practical advice as to the improvements to make, and the materials to select. When your plans are complete we will give you an estimate of cost—without charge and without obligation.

Ask for our *FREE* information folder on the *National Housing Act*.



*Wards Price Saves You \$15.00 on this Complete Bathroom Outfit*



*This Big Kitchen Unit Costs \$20.00 Less Than Is Usually Asked*



*A Clear Saving of \$40 on This Heating Plant*

## WARDS OWN BUDGET PLAN

Offers Monthly Payments on Orders as Low as \$20

If Cash Price of Your Order Amounts to	First Payment With Order	Monthly Payments	Add for Budget Plan Price
\$20.00 to \$25.00	\$3.00	\$4.00	\$2.50
25.01 to 30.00	3.00	5.00	3.00
30.01 to 35.00	4.00	5.00	3.50
35.01 to 40.00	4.00	5.00	4.00
40.01 to 50.00	5.00	5.00	5.00
50.01 to 60.00	5.00	6.00	5.50
60.01 to 70.00	6.00	7.00	6.50
70.01 to 80.00	7.00	7.00	7.50
80.01 to 90.00	8.00	8.00	8.50
90.01 to 100.00	9.00	8.00	9.50
100.01 to 110.00	10.00	9.00	10.50
110.01 to 120.00	10.00	9.00	11.50
120.01 to 130.00	12.50	10.00	12.50
130.01 to 140.00	12.50	10.00	13.50
140.01 to 150.00	12.50	10.00	14.50
150.01 to 175.00	15.00	12.00	16.00
175.01 to 200.00	20.00	12.00	17.50
200.01 to 225.00	22.50	14.00	20.00
225.01 to 250.00	25.00	15.00	22.50
250.01 to 275.00	27.50	16.00	25.00
275.01 to 300.00	30.00	17.00	27.00
300.01 to 350.00	35.00	20.00	31.00
350.01 to 400.00	40.00	22.00	36.00
400.01 to 450.00	45.00	25.00	40.00
450.01 to 500.00	50.00	28.00	44.00

Commodity prices are on the upturn. Labor costs are starting to climb back to old levels. If you are *Ever* going to have the improvements you want for your home—the sunporch, bathroom, furnace or new roof, *NOW* is the time to make them. And Wards convenient Budget Plan for buying makes it possible on the soundest kind of basis. You buy at today's low prices. You pay out of the income of more prosperous times ahead.

### Home Improvement Is Wise Investment

We extend this buying convenience on all orders of \$20 or over. You may include items from our other special books or Wards General Catalog. On a \$20 order, the down payment is as low as \$3 and monthly payment as low as \$4 as shown in the table at the left. And you have your improvements—your sunporch, central heat, running water, extra bedroom or weather-tight roof, to use and enjoy while you pay.

Prices in this book are cash prices, reflecting the consistent savings Mail Order selling makes possible. Even at the Budget Plan prices, you'll find Wards are still well under the *CASH* prices usually asked.





# Let Wards FREE Modernize Your



**Check Wards  
Low Prices  
For Complete  
Installation**

Bathroom Outfit.....	\$34.95
Pipes and Fittings.....	57.85
Septic Tank.....	14.65
Pipes for Septic Tank.....	20.00
Automatic Electric Pump.....	38.95
Laundry Tubs.....	8.95
Kitchen Sink.....	13.95
	<b>\$189.30</b>

Surprisingly little, isn't it. Yet this is a complete installation for an average 5-room farm home. With city water and sewer available, your new bathroom will cost you even less. You will find Wards price lower—lots lower than usually asked for quality equipment like this. Because we do such a huge business, economically by mail, we can give you the very best quality it is possible to produce at prices so low that they should be all you need to clinch your decision to have your home modernized without another month's delay.

## Wards Plumbing Ware Is Certified First Quality

We offer bathroom fittings in a wide range of smart new designs and colors—but we offer them in just ONE Quality—the BEST that can be produced commercially. All our enamel and vitreous chinaware bears this seal of "First Quality." It is the symbol used by manufacturers throughout the industry for their first quality products—and is your assurance that you have purchased strictly *first quality*.



This seal certifies that product is "First Quality" as specified by the Sanitary Enamelware Manufacturers Association in accordance with recommendations of the U. S. Bureau of Standards.

We maintain this same standard of excellence in every detail of every bathtub, lavatory, closet and sink. All fittings, faucets, supply and waste pipes are the latest, most up-to-date type, made of heavy brass, finished with a heavy plating of long service chromium.

There is no need to sacrifice quality in the interests of economy when you buy at Wards. If you wish to spend a little less for your bathroom fittings, select our simpler designs. Choose white instead of colors; a tub on legs instead of the built-in style; a lavatory on brackets instead of the pedestal type. The difference in price is wholly a matter of design—not of quality. No matter how little you expect to spend, you are assured of *first quality* when you buy from Wards.

## LETTERS LIKE THESE

We are more than pleased with the bathroom outfit received from you. Material and appearance are much better than we expected. Everything reached us in record time and fine condition. I would strongly advise any home owner who wants quality in bathroom outfits to send to Wards; it will save him money, as we got this outfit for about half what it would have cost locally.

I am very much pleased with the bathroom outfit in every way, and it was a considerable saving in cost.

We have had so many favorable comments on its appearance. The plumber who installed it for us told me he could not purchase an outfit to equal it wholesale for less than we paid.

C. F. Stratton,  
Oxford, New York.

George W. Baker,  
Spearfish, South Dakota.





# ENGINEERING SERVICE

## Plumbing at Lowest Cost...

Wards Engineering Department, a staff of keen, well trained men, is at your service, ready to give you any help you require in planning or installing your plumbing. If you wish to know costs, they will give you a **FREE** estimate. If your installation offers some special problems, they will make you a complete plan when we receive your order. If you wish to do the work yourself, they will provide you with the necessary instructions. **YOUR** job is handled by a man personally interested in **YOU**, who makes it his business to give you the type of help that will insure a most satisfactory job—at the lowest possible cost. Information Blank shown at right.

### Information Blank Shown at Right Brings You a Complete **FREE** Estimate

You will want to know costs before you really go forward with your plans. Simply fill in the Plumbing Information Form No. 12862. It gives us, quickly and accurately, the facts we need to quote you prices on all the materials you will require. Fill it in carefully, answering each question fully; make measurements accurately. Your care now will insure your satisfaction later.

### These **FREE** Blue Prints Will Be Prepared for You by Skilled Engineers

Our customers tell us they save 20 to 40 per cent of the cost of their improvement by doing the work themselves. Whenever needed, we will send with your order a complete set of blue prints showing every step in the installation of the plumbing for your home. They are clear, accurate and tailor-made for your own job. Even though you hire the work done, these blue prints will save you money. They enable you to employ any good, reliable workman. Or, if you turn the job over to a plumber, you have saved him time—and yourself money—by providing him with these working drawings.

### And These **FREE** Instructions Make Every Installation Step Easy

Simple, clear, concise, with lots of pictures, these instructions take you step by step. You will find them all the help you need for doing a clean, workmanlike job, according to latest, most approved plumbing practice.

Just as Wards low prices save you money on your plumbing fixtures, Wards Free Engineering service will save you money on every step in installation.

## ARE RECEIVED EVERY DAY

We certainly are well pleased with the bathroom outfit purchased from you. It reached us in good order and we had no trouble in putting it in—we simply followed your directions. We were very agreeably surprised at the sturdy durability and fine appearance, and it cost us lots less than it would have had we bought it locally.

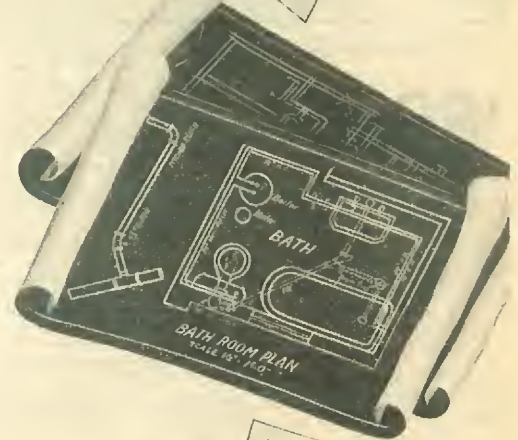
E. W. EBRITE  
Gainesville, Mo.

We are all very much pleased with the quality and appearance of our bathroom pieces. They are just as sturdy and durable as you represented, if not more so. The same outfit here would have cost \$70. However, we only priced at one place. We knew we would get better quality for our money by sending to Wards.

MRS. C. W. McCANN  
West Plains, Mo.

I received the bathroom outfit before I was ready to install it. Was more than pleased with it and so was the family. We also bought your automatic hot water heater and think it is fine—we have really hot water at any time wanted. Your directions are very simple and easy to follow. I saved a lot by buying at Wards.

C. M. SETSER  
Portales, New Mexico





# Wards Prepay the Freight Charges

The time to plan  
**BATHROOM** is  
famous porcelain  
selling at these



## "LAKE FOREST"

**\$88<sup>95</sup>**

Those of you who visited the Century of Progress in Chicago will recognize this Bathroom. Its modern design is identical with the newest of the fine outfits exhibited there. A really modern bathroom—at a price that is low for so much comfort, convenience and beauty. Wards Budget Plan makes it especially easy to own (see Page 3).

Complete with Shower and Shower Rod—ready to install in your own bathroom. All fittings and exposed metal parts are sparkling Tarnish-proof Chromium in the modern Artline design to match in quality the Warranted First Quality Porcelain Enamel and Vitreous China—we don't believe you can buy a better grade of Bathroom fixtures.

Tub is 30 in. wide—made of First Quality Porcelain Enamel with paneled sides with overrim tub spout and patented trip lever waste (no stopper and chain necessary). The chromium-plated Diverter Lever runs water to tub or to shower. Complete with adjustable Shower Head, chromium-plated curtain rod (curtain not included) and connections.

Vanity Top Lavatory has recessed single stream mixing Faucet and two 6-sided chromium-plated legs. Chromium-plated supply pipes with stops and trap. Top is 24 by 20 inches; octagon basin is 16 by 11 in. Closet is First Quality Stainless Vitreous China with improved jet which flushes quietly in about 7 seconds. Recessed tank bolts directly onto bowl and complete outfit is only 29 inches high—takes 8 inches less wall space. The waterproof seat is enveloped in celluloid coating—in white or colors to match outfit. All fittings including bar hinge chromium-plated. For tank supply pipe to wall or floor add 50c. State which.

Article No.	Tub Faucet and Shower	4½-Foot Tub	5-Foot Tub	5½-Foot Tub
181 PHB 293	In Right End	\$88.95	\$90.95	\$93.95
181 PHB 294	In Left End	88.95	90.95	93.95

For corner tub add \$3.50. Wards prepay freight on this outfit.

Also in Green, Orchid or Ivory. For color add \$26 extra. State color.

All pieces in these Outfits shown separately on following pages.

Here's a pantry that lost its shelves and became a bathroom.



And this is the bathroom that started life as a pantry.

Look what's happened here! A pantry made into a bathroom! In the home of Mr. A. F. Otis, in Northern Illinois, there was need of a bathroom downstairs.

In Mr. Otis' home there was an unused pantry just large enough to accommodate tub, lavatory and closet. All materials and fixtures were secured from Wards Catalog. The photographs above show how well the plan worked out. You can do the same thing, a room only 5 feet wide will accommodate a bathtub.

**Wards Prepay Freight on Bathroom Outfits**

## "MODERNE"

An extremely handsome outfit... quality made throughout... yet very moderately priced. Convenient modern fittings are tarnish proof chromium-plated—solid brass underneath. Tub and Lavatory are glistening, hard surfaced First Quality Porcelain Enamel—the Closet is First Quality Stainproof Vitreous China. Complete with faucets, all iron pipe connections, trap, and supply pipes—all ready to install. You can install it yourself by following the complete instructions included.

Tub—Your choice of recess or corner tub with fittings in either right or left end—our number 181 PHB 726 (recess tub) or 181 PHB 744 (corner tub) shown on Pages 14 and 15.

Lavatory—has single stream mixing fitting, pop-up waste, trap and supply pipes to wall. It is No. 181 PHB 509 on Page 12.

Closet—Washdown style with celluloid coated seat in white or color to match outfit. Number 181 PHB 823 described in detail on Page 10. For tank supply pipe to wall or floor add 50c. State which.

**\$62<sup>85</sup>**

Also in Green, Orchid or Ivory. For color add \$24 extra. State color wanted.

All pieces in these Outfits shown separately on following pages.

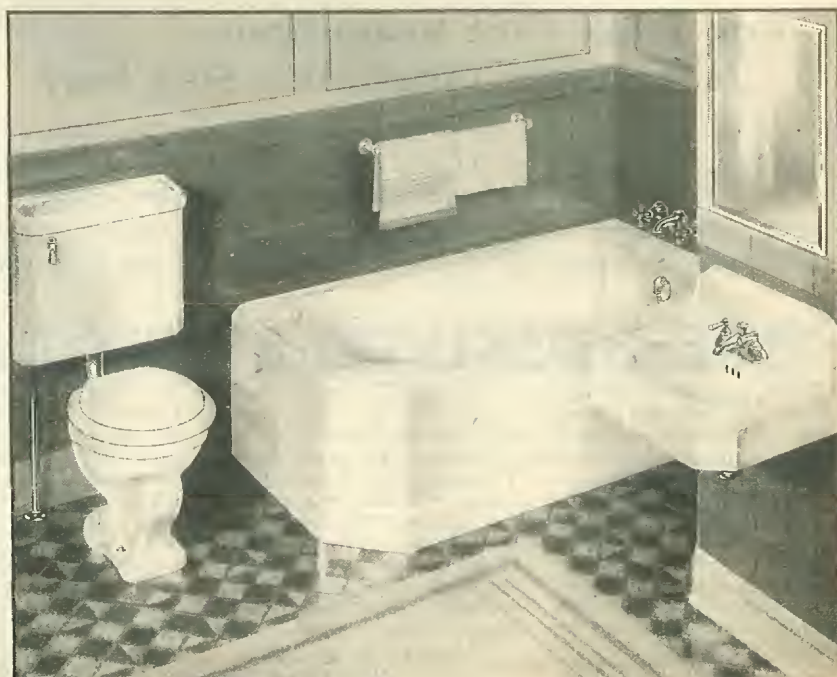
### White Moderne Bathroom Outfits with Corner Tub

Art. No.	Kind of Tub	5-Ft. Tub	5½-Ft. Tub
181 PHB 282	With Tub for Right Corner	\$62.85	\$66.85
181 PHB 283	With Tub for Left Corner	62.85	66.85

### White Moderne Bathroom Outfits with Recess Tub

Art. No.	Tub Faucet	4½-Ft. Tub	5-Ft. Tub	5½-Ft. Tub
181 PHB 280	In Right End	\$58.25	\$60.15	\$63.35
181 PHB 281	In Left End	58.25	60.15	63.35

This outfit also in green, orchid or ivory. For color add \$24 extra and state in order. Wards prepay freight on all bathroom outfits, saving you up to 15%. See Page 3 for Wards Budget Plan.





# on all BATHROOM OUTFITS...

## that PERFECT now with Wards enamelware low prices...



We have assembled seven handsome sets on these pages, all priced at least 5% less than three individual pieces.

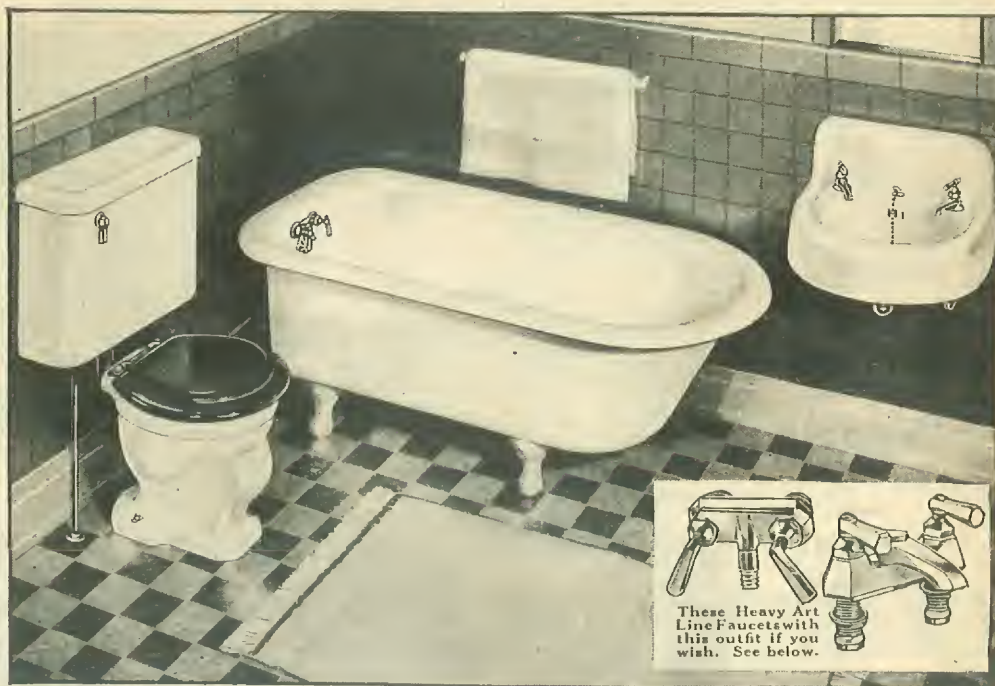
Yet your choice of Bathroom Outfits is not limited to these. You can make up your own bathroom outfit from the individual pieces on the following pages, and still save 5%.

Just select the tub, lavatory, and closet you like best from our complete selection of individual pieces on Pages 10, 12, 13, 14, 15... add up their prices, and deduct 5% ( $\frac{1}{20}$ th).

Don't Delay...

Use Wards Budget Plan

If you are intending to buy your outfit "a little later"... there is no need to delay. If you want a bathroom now, you can have it now. Every day you put it off means inconvenience if not actual discomfort. Don't let the question of ready money stand in your way. Wards Budget Plan will enable you to own your bathroom outfit at once for a very small cash payment—as little as \$4.00 which is the down payment on the Glen Ellyn. On Page 3 you can see how very little the monthly payments amount to. When buying is made so easy there's no reason why you shouldn't enjoy your bathroom set right now.



These Heavy Art Line Faucets with this outfit if you wish. See below.

### "GLEN ELLYN"

An attractive Bathroom Outfit... quality made throughout... yet very moderately priced. Just \$4 down under Wards Budget Plan will put it in your home.

Outfit shown here includes faucets, traps, supply pipes, iron pipe connections and closet seat. All faucets and exposed metal parts are plated with sparkling tarnish proof chromium. Lavatory is First Quality Porcelain Enamel. Top is 17 by 19 inches, bowl 10 by 15 inches. Closet is stainless Vitreous China; has rapid positive washdown flushing action. Complete with brass flushing mechanism and warp-proof hardwood seat in rich mahogany finish. For closet supply pipe to wall or floor add 50c. State which. Rough-in (distance from wall to center of waste pipe) is 14 inches. Tub is coated inside and overrim with First Quality Porcelain Enamel—painted white outside. It is 30 inches wide. Shipped Freight Prepaid.

Article No.	Lavatory Fittings	4½-Ft. Tub	5-Ft. Tub	5½-Ft. Tub
181 PHB 943	To Wall	\$34.95	\$37.10	\$39.95
181 PHB 944	To Floor	\$5.75	37.85	40.75

Same Outfit with Heavy Artline Fittings as Shown in Small Illustration  
With single stream lavatory faucet (see Page 12) and Extra Heavy Tub Faucet.

Article No.	Lavatory Fittings	4½-Ft. Tub	5-Ft. Tub	5½-Ft. Tub
181 PHB 945	To Wall	\$37.85	\$39.75	\$42.60
181 PHB 946	To Floor	38.60	40.50	43.35

**\$34<sup>95</sup>**

as shown

**\$37<sup>85</sup>**

with heavy  
Art Line Faucets

With faucets,  
trap, connections  
and closet seat.



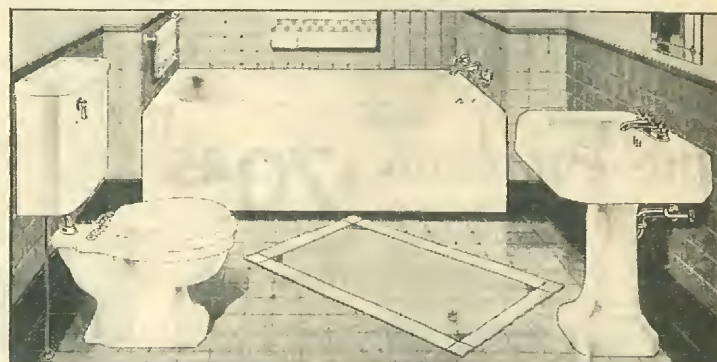
### "DEERFIELD"

**\$47<sup>85</sup>**

Complete with  
all faucets,  
trap, all con-  
nections and  
closet seat.

No dust can get underneath this tub. It is 30 in. wide, made of cast iron heavily coated inside and over rim with First Quality porcelain enamel... painted white outside. Has chromium plate Faucet with Metal Handles, supply pipe and stopper and chain. Modern porcelain enameled lavatory has protecting "splasher" back. Top is 18x21 in., bowl 10 by 15 in. Chromium-plated single stream Mixing Faucet as shown on Page 12. Closet is finest Stainless Vitreous China with washdown jet flushing action. Seat is mahogany finished. Rough-in (distance from wall to center of drain pipe) is 14 in. For closet tank supply pipe to wall or floor add 50c. State which. Our price includes all faucets, traps, tub and lavatory supply pipes, iron pipe connections and closet seat. Shipped freight prepaid.

Article Number	With Lava- tory Fittings	4½-Ft. Tub	5-Ft. Tub	5½-Ft. Tub
181 PHB 980	To Wall	\$17.85	\$49.50	\$53.00
181 PHB 981	To Floor	48.45	50.25	53.75



### "LUCERNE"

**\$71<sup>95</sup>**

Also in Green,  
Orchid or Ivory.  
For color add  
\$25 extra. State  
color wanted.

All exposed fittings are plated with sparkling, tarnish-proof chromium. Tub and lavatory are First Quality Enamel. Closet is of twice fired Stainless Vitreous China. Flushes quietly and quickly by syphon jet action—the most efficient closet construction. Seat is celluloid-coated in white or color to match. Recessed tub 30 in. wide has built in over-rim faucet with stopper and chain. Lavatory top is 24 by 20 in.; 11 by 16-in. bowl. Single stream mixing faucet with pop-up waste (see Page 12). Complete with all faucets, trap, tub and lavatory supply pipes and iron pipe connections.

Article Number	Tub Fittings	Lavatory Fittings	4½-Ft. Tub	5-Ft. Tub	5½-Ft. Tub
181PHB260	In Right End	To Wall	\$71.95	\$73.95	\$77.00
181PHB261	In Left End	To Wall	71.95	73.95	77.00

For corner tub add \$3.50. For Lavatory Fittings to floor add 75c. For closet tank supply pipe to wall or floor add 50c. State which. Shipped freight prepaid.



# Wards Prepay Freight on Enamelware

**\$47<sup>95</sup>**  
CASH  
PRICE

**\$5 down**

**\$5 a MONTH**

**FREIGHT  
PREPAID**



## Wards Design a New Bathroom Outfit

Many months ago Wards designers began work on a new Bathtub and Lavatory of distinctive, modern appearance. The strikingly attractive result is shown above. This work has at last made possible an outfit that has the very latest design and is still low in price. Of course it is First Quality, for Wards would not sacrifice quality for appearance.

**TUB:** Leg-style tubs have always been less expensive to build and now Wards have given this tub a really modern, up-to-the minute design. This greatly improved appearance has been accomplished by giving the tub new improved style legs. Has flattened roll rim with attractive bevel. The deep soap dishes on either side of the faucet are handy and give it a distinctive appearance. The Chromium plated brass faucet mixes hot and cold water to the desired temperature. Tub is one-piece cast iron blanketed inside and over the rim with the finest First Quality Porcelain Enamel. The outside is painted white. Tub is 5 feet long, 30 inches wide and 19 inches high including 4 inch legs. Fittings include faucet, supply pipes, waste and over flow and stopper and chain. All fittings are Chromium plated.

**LAVATORY:** Modern in appearance, and designed especially to harmonize with the other two pieces in this outfit. Cast iron covered with First Quality Porcelain Enamel. Has soap dishes on either side of the single stream mixing faucet that tempers the water to the desired temperature. The top is 17 by 19 inches with 5 1/4 inch back; the bowl 10 by 14 inches and 5 inches deep. Fittings include faucet, supply pipes, trap, iron

pipe connections and wall hangers. All fittings are brass heavily plated with Chromium.

**CLOSET:** Like all of Wards Closets, this popular model is finest First Quality Vitreous China. Its hard glazed surfaces are easy-to-keep-clean, sanitary, stain-resisting. The powerful Syphon Washdown Action flushes the bowl quickly and thoroughly. Has large trapway, and water seal with a large part of the bowl under water at all times. All exposed metal trimmings are brass, Chromium plated. The shelf top tank has brass flushing mechanism and copper float. The mahogany finish hardwood seat is non-warping and moisture-resisting. Has brass bar hinge, Chromium plated; and rubber bumpers. Complete with screws, washers, and seat. For supply pipe to wall or floor add 50c. *State which.*

**OUTFIT:** Complete with all necessary fittings except tank supply pipe. Complete instructions for installing are included. You can install it yourself and make an added savings. And don't forget—the price includes Freight Charges, too, because Wards Prepay Freight on all enamelware. For Wards Budget Plan see Page 3 for details.

Article Number	With Lavatory Fittings	Cash Price
181 PHB 951	To wall	\$47.95
181 PHB,952	To Floor	48.75

## The Patrician \$70<sup>45</sup>

Style . . . Beauty . . . Convenience. All three, as well as many more features, are found in this handsome Bathroom Outfit, and at prices that you usually pay for far less handsome outfits. Each piece is First Quality with colonial paneling, modern corners and Chromium plated brass fittings.

**\$7 down \$7 a MONTH**

**FREIGHT PREPAID**

**TUB:** Glistening First Quality Porcelain Enamel inside and out. Shown here for right hand corner, but may be had for left hand corner. The tub is 30-in. wide. Chromium plated fittings built into the wall, over-rim mixing spout, plug and chain. If you prefer a recess tub, deduct \$3, and state whether you want fittings in right or left end.

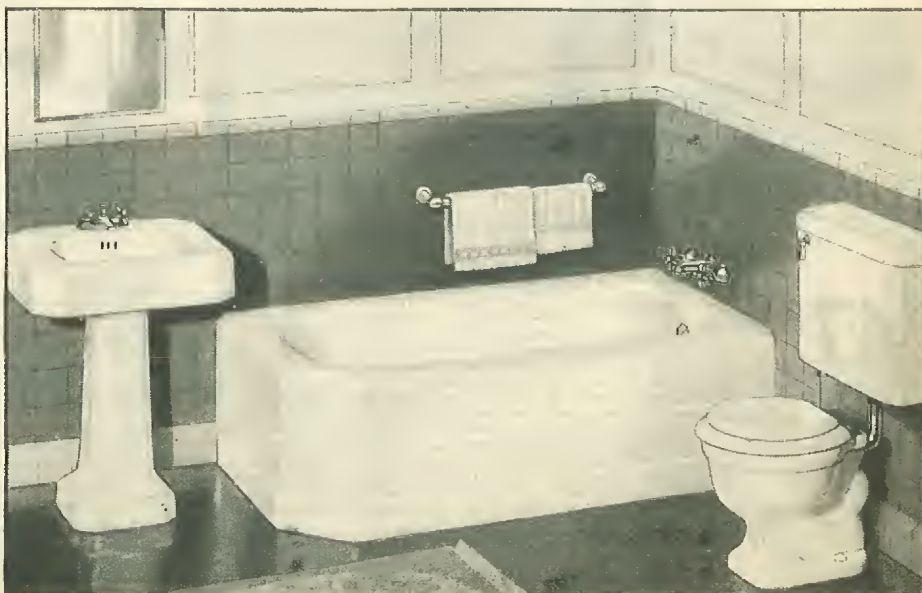
**LAVATORY:** Smart pedestal design porcelain enamel. Top is 24 by 20-in.; octagon shaped bowl is 12 by 16-in. Chromium plated fittings include single stream mixing faucet with pop-up waste.

**CLOSET:** Vitreous China and reverse trap bowl. Seat and cover are hardwood covered with sheet celluloid to match rest of outfit. Rough-in (distance from wall to closet outlet) is 14 inches.

**OUTFIT:** Complete with iron pipe connections and instructions for installing. You can install it yourself and save more money.

Choice of colors—White, Green, Orchid or Ivory. *State color.* Prices below are for White—For Green, Orchid or Ivory, add \$25.00 extra. For lavatory fittings to floor add 75c. For closet tank supply pipe to wall or floor add 50c. *State which.* Wards pay the freight on all enamelware. For Wards Budget Plan of Monthly Payments, see Page 3.

Outfit with Right Corner Tub as Pictured . . . . .	5 ft. Tub	5 1/2 ft. Tub
181 PHB 230—Lavatory Fittings to Wall . . . . .	\$70.45	\$74.75
Outfit with Left Corner Tub. State corner wanted.		
181 PHB 231—Lavatory Fittings to Wall . . . . .	70.45	74.75





## MEDICINE CABINETS

To Keep the Bathroom Tidy



### Insert Cabinet With Venetian Mirror

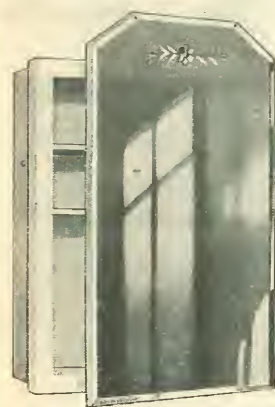
Behind this beautiful etched Venetian plate glass mirror there is a big medicine cabinet with three ample shelves. This cabinet serves the double purpose of being a handsome decoration and a useful bathroom fixture.

The mirror is of heavy flawless plate glass, beveled on all edges, and securely fastened to the door of the cabinet. The gracefully curved top is etched with a delicate scroll design.

The new style insert cabinet is made of heavy, cold rolled steel sheet, finished in glistening baked white enamel that is easy to clean and will not crack. Three roomy plate glass shelves, razor blade drop and tooth brush holder are included. The entire cabinet sets into a wall opening 15 3/4 inches by 21 3/4 inches by 3 1/4 inches deep. Mirror is 18 inches by 26 inches. *Mailable.* Shipping weight 41 pounds. See Page 2 for shipping information.  
481 HB 1850.....\$10.45

### Medium Size Cabinet—Two Glass Shelves

Has same beautiful mirror and same fine construction as cabinet above. It's slightly smaller and has two glass shelves. Sets in wall opening 13 1/2 by 19 1/2 by 3 1/4 in. deep. Mirror is 16 by 24 in. Shipping weight 30 pounds.  
481 HB 1855—Complete, ready to install. *Mailable*....\$7.95



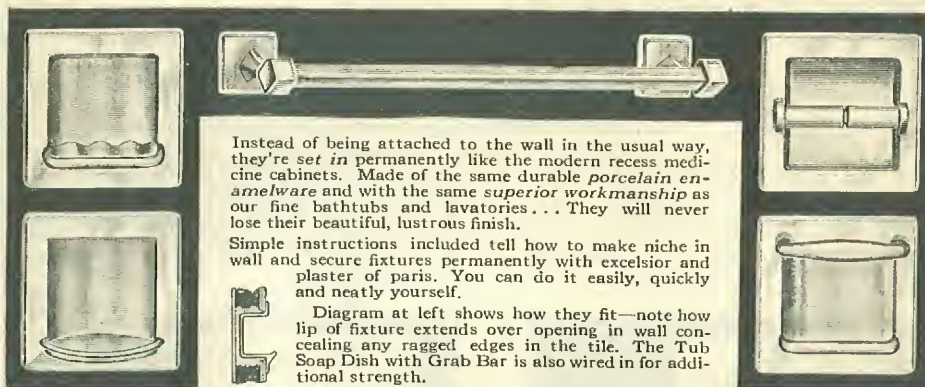
### \$495 Steel Cabinet

Attractive  
Lowest Priced

Made of sturdy steel with glossy, washable white enamel baked-on inside and out. This beautiful yet inexpensive Cabinet has a heavy, clear glass mirror, 15 1/2 by 23 in. covering the entire door. It is etched and shaped in the modern manner. Sanitary—the two enameled metal shelves resist dirt and are easy to keep clean. Convenient drop for used razor blades and tooth brush holder. Build it into wall yourself by following the simple instructions included. For wall opening 13 3/4 by 19 3/4 by 3 3/4 in. Screws included.  
481 HB 1840—Ship. wt. 18 lbs. *Mailable*.....\$4.95

## BUILT-IN FIXTURES

ARE MODERN AND  
EASY TO INSTALL



Instead of being attached to the wall in the usual way, they're set in permanently like the modern recess medicine cabinets. Made of the same durable porcelain enamelware and with the same superior workmanship as our fine bathtubs and lavatories... They will never lose their beautiful, lustrous finish.

Simple instructions included tell how to make niche in wall and secure fixtures permanently with excelsior and plaster of paris. You can do it easily, quickly and neatly yourself.

Diagram at left shows how they fit—note how lip of fixture extends over opening in wall concealing any ragged edges in the tile. The Tub Soap Dish with Grab Bar is also wired in for additional strength.

### See How Stunning These Fixtures Look in the Bathroom on Back Cover

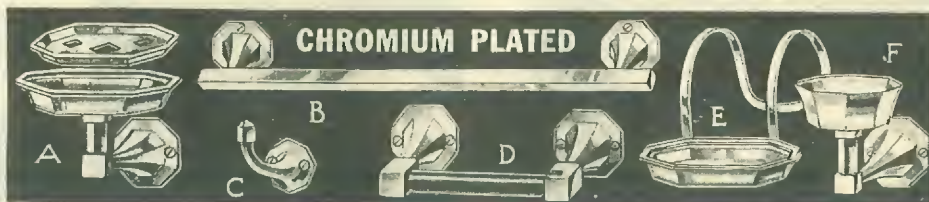
Recess fixtures are furnished in either white, green or black. The green fixtures match our green tubs, lavatories and closet outfits.

The towel bars are enameled iron 3/4 inch square in 18-inch and 24-inch lengths. The other fixtures are all 6 inches high and 1 1/2 inches deep.

All white and colored recess fixtures shipped from stock. See Page 2 for postage rates and shipping information.

State clearly number, size, and color wanted.

Number and Name	Ship. Wt.	Each
81 HB 1900—Soap Dish.....	4 lbs. 8 oz.	\$1.45
81 HB 1901—Tumbler Holder....	4 lbs. 8 oz.	1.75
81 HB 1902—Tissue Holder.....	4 lbs.	1.75
81 HB 1903—Tub Soap Dish and Grab Bar.....	6 lbs.	2.45
81 HB 1904—18-in. Towel Bar..	2 lbs. 12 oz.	1.75
24-in. Towel Bar..	3 lbs.	2.45



### Brass Heavily Chromium Plated—Tarnish proof—Easy To Clean

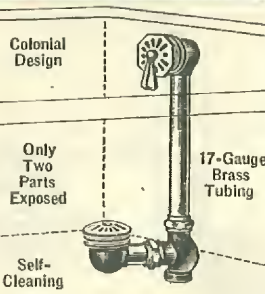
Modern. Very newest of all Bathroom Fixtures. Beautiful—brilliant—tarnish proof. Made of brass for strength, well covered with rust proof chromium. Easy to keep bright and sparkling—polishes with a damp cloth. Easily attached to wall. All are furnished complete with chromium plated screws.  
(A) WALL SOAP DISH—for attaching to wall. 4 3/4 in. by 3 1/2 in. Has removable self draining tray. 81 HB 1700—Ship. wt. 1 lb., 4 oz.....\$1.35  
(B) TOWEL BAR—modern square design prevents towels from slipping off. Reinforced for strength. 81 HB 1704—18 in. long. Ship. wt. 1 lb., 4 oz....\$1.35  
81 HB 1704—24 in. long. Ship. wt. 1 lb. 8 oz.... 1.65

(C) ROBE HOOK—strong and convenient. Attaches to wall. Ship. wt. 5 oz.  
81 HB 1705.....35c  
(D) TOILET PAPER HOLDER—easily filled. Chromium plated roller.  
81 HB 1703—Ship. wt. 1 lb., 8 oz.....\$1.35  
(E) TUB SOAP DISH—4 3/4 inches by 3 1/2 inches. Has removable self draining tray.  
81 HB 1702—Ship. wt. 1 lb.....\$1.35  
(F) TUMBLER HOLDER—attaches to wall.  
81 HB 1701—Ship. wt. 1 lb.....1.35

## BATHTUB SUPPLIES

### Trip Lever Waste and Overflow

A fixture that will add to the appearance and convenience of any tub having over rim fittings. Eliminates chain and stopper. Waste stop is operated by trip lever and is absolutely water-tight when closed. Easy to install and can be adjusted from the outlet face. Overflow pipe is self-cleaning; will not clog. Trip lever and face openings are chromium-plated. 1 1/2-inch, 17-gauge brass tubing. Ship. wt. 7 lbs.  
81 HB 6521—Each...\$4.75

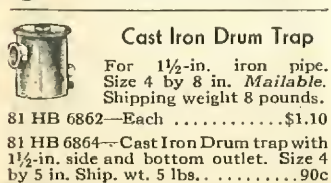


Colonial Design  
Only Two Parts Exposed  
Self-Cleaning  
17-Gauge Brass Tubing

Brass, nickel or chromium plated. With rubber stopper, chain and floor flange. 1 3/4-in. tail piece. *Mailable.* Ship. wt. 4 lbs. See Page 2 for Shipping Information.  
81 HB 6520—Nickel...\$1.79  
81 HB 6523—Chrome 2.19

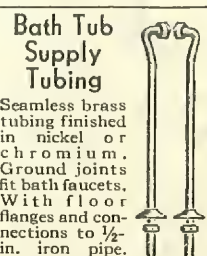
Cast Iron Drum Trap  
For 1 1/2-in. iron pipe. Size 4 by 8 in. *Mailable.* Shipping weight 8 pounds.  
81 HB 6862—Each.....\$1.10

81 HB 6864—Cast Iron Drum trap with 1 1/2-in. side and bottom outlet. Size 4 by 5 in. Ship. wt. 5 lbs.....90c



### Bath Tub Supply Tubing

Seamless brass tubing finished in nickel or chromium. Ground joints fit bath faucets. With floor flanges and connections to 1/2-in. iron pipe. Length, 20 in. *Mailable.* Ship. wt. 2 lbs. 8 oz. See Page 2 for Shipping Information.  
81 HB 5112—Nickel Finish. Pair...\$1.10  
81 HB 5109—Chromium Finish. Pair...\$1.40



## ENAMELED IRON Acid-Resisting



### Bath Tub Soap Dish

A heavy, substantial and necessary fixture to any bath tub. Ship. wt. 1 lb. Your choice of white, green or orchid. *State color.*  
81 HB 1801—Each.....67c



### Tooth Brush and Tumbler Holder

A popular modern design fixture. Has space for four brushes and tumbler. With screws and concealing caps. In white, green or orchid. Ship. wt. 1 lb. 12 oz. *Mailable.* *State color.*  
81 HB 1815.....59c

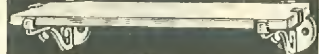
### Enameled Iron Robe Hook

With screws and concealing caps. Shipping weight 6 oz. White, green or orchid. *State color.*  
81 HB 1809—Each.....10c  
6 hooks.....55c



### Wall Soap Dish

Enameled iron frame with screws and concealing caps. White fixture has removable glass tray. Green and orchid fixtures have vitreous china trays to match. Ship. wts. 1 lb. 12 oz.; 1 lb. *State color.*  
81 HB 1802—Each.....65c  
81 HB 1803—No tray.....40c



### Opal Glass Shelf

A necessity in fine bathrooms. Opal glass shelf in white only. Steel brackets with screws and concealing caps come in white, green or orchid. Ship. wts. 6 and 8 lbs. *State size of shelf and color of brackets.*  
81 HB 1810—Shelf 5 by 18 inches.....\$1.09  
81 HB 1810—Shelf 5 by 24 inches..... 1.25

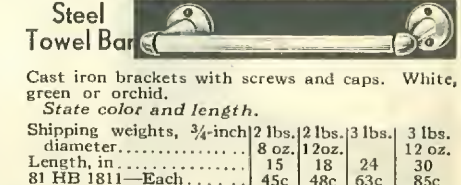


### Bath Tub Seat

Hardwood seat. Heavily coated white enamel. Rubber covered hangers prevent slipping and scratching. Ship. wt. 4 lbs.  
81 HB 6407—Each.....95c

### Steel Towel Bar

Cast iron brackets with screws and caps. White, green or orchid. *State color and length.*  
Shipping weights, 3/4-inch 2 lbs. 2 lbs. 3 lbs. 3 lbs.  
diameter..... 8 oz. 12 oz. 15 18 24 12 oz.  
Length, in..... 15 18 24 30  
81 HB 1811—Each..... 45c 48c 63c 85c



### Toilet Paper Holder

Polished hardwood roller. Easily and quickly filled. Enameled iron brackets with screws and concealing caps. White, green or orchid. *State color.*  
81 HB 1813—Ship. wt. each 1 lb. 8 oz.48c

### Steel Bath Stool

With rubber seat pad and rubber crutch tips on legs. Ship. wt. 7 lbs. White, green or orchid. *State color.*  
481 HB 1574—Each.....89c





# Your Modern Home Starts Here!



Indeed! the bathroom comes first! Make it shine with the smooth hard surfaces of modern fixtures. In colors too: white, orchid, green or ivory. All Wards Closet Outfits are First Quality Vitreous China—sanitary—stainproof—easy to keep clean. Exposed metal in chromium! Modern!—to the minute!

## Wards Prepay Freight on All Closets, Tubs and Lavatories

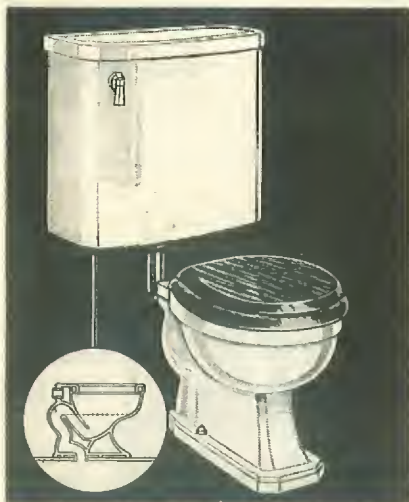
Wards spectacular low prices have been made even lower by this new policy.

In actual fact, this means savings of about 10% on china closets, and freight savings up to 15% on heavy cast iron tubs and lavatories.

## How to Order Closets



In replacing an old closet, be sure the *rough-in* (distance from wall to center of drain pipe) is the same as we state in our description. See illustration at left.



### REVERSE TRAP ACTION

**\$13<sup>45</sup>**

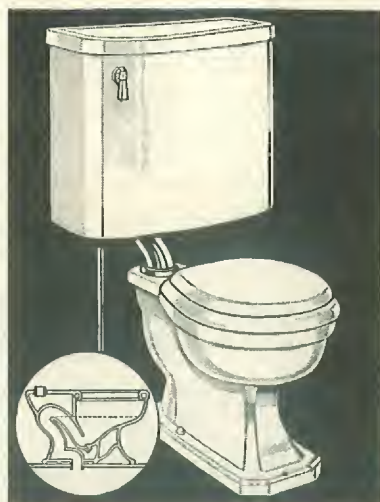
Wards Prepay the Freight

Similar in design to our highest priced closets. Made of the same First Quality Vitreous China—durable and easy to care for.

Colonial Design with quiet, quick-acting Reverse Trap Flushing Action. Trap is in rear... greatly improving appearance of bowl. Note the large area of bowl which is under water. Bowl and tank are stainless First Quality Vitreous China. Tank has new convenient shelf top. High Quality hardwood seat which will not warp or crack, has bar hinge and rubber bumper. Screws and washers are brass heavily chromium-plated. *Rough-in is approximately 14 inches.* (See explanation in "How to Order" at top of page.) For supply pipe to wall or floor add 50c. *State which.* For Budget Plan see Page 3. *Wards prepay freight on closets.*

181 PHB 841—White Outfit with Mahogany seat.....\$13.45  
181 PHB 843—White with Sheet Pyralin covered Seat and chromium plated hinge.....\$13.95

In Green, Orchid or Ivory. *State Color.*  
181 PHB 842—Colored outfit, sheet pyralin covered seat to match; chrome hinge.....\$26.95



### SYPHON JET ACTION

**\$18<sup>25</sup>**

Wards Prepay the Freight

Flushes quickly and quietly. Easier to keep clean because more of the bowl is under water.

Colonial design; chromium-plated trimmings. Large size bowl; quiet Syphon Jet Flushing Action. Moisture-proof hardwood seats with bar hinges and rubber bumpers. Bowl and "shelf-top" tank of stainless First Quality Vitreous China. *Rough-in, 12 inches.* For supply pipe to wall or floor add 50c. *State which.* *Wards prepay freight on closets, saving you about 10%.*

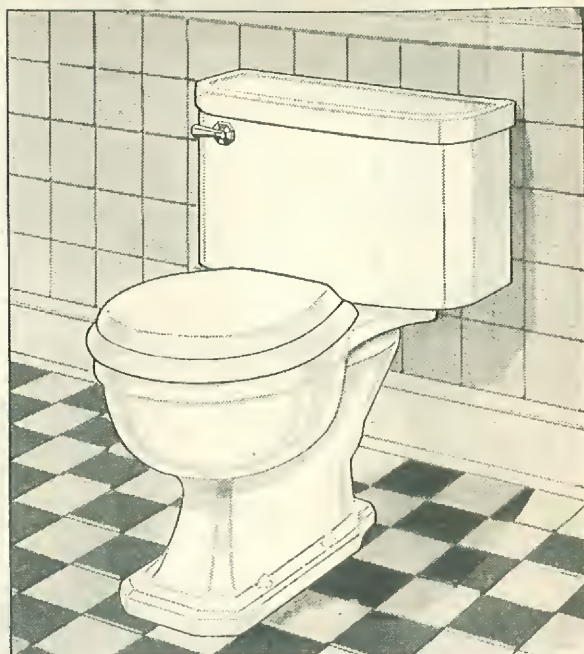
181 PHB 832—White outfit with sheet pyralin covered seat, chromium hinge.....\$18.25  
181 PHB 834—With Mahog. fin. seat. 16.95

#### Outfits with Cast Iron Enameled Tank

181 PHB 836—White with sheet pyralin covered seat, chromium hinge.....\$21.25  
181 PHB 830—With Mahogany Seat. 19.95

#### Orchid, Green or Ivory Closet Outfits

181 PHB 835—Seat covered with sheet pyralin in "mother of pearl" finish to match. Chromium-plated hinge. *State color.* \$32.95



## Latest Closet Design Ultra-Modern..Compact SYPHON JET FLUSHING ACTION

**\$21<sup>50</sup>**

Freight Prepaid



Very much smarter than anything on the market. It's all in one unit—closet tank bolts directly to bowl. The tank does not hang from the wall. The total height, only 28½ inches, is at least 8 inches less than the usual outfit. Therefore it fits in places in which it would be impossible to set other outfits. Tank is recessed allowing seat cover to stand up. Smart Colonial Design that harmonizes with the modern bathroom fixtures.

Its whirlpool centrifugal action flushes the bowl thoroughly and very quietly in about 7 seconds. Uses about ¼ less water than the ordinary toilet. Built of stainless First Quality Vitreous China with sparkling chromium-plated fittings. Sheet pyralin covered hardwood seat. Equipped with chromium-plated concealed hinges and rubber bumpers. Extra large bowl with unusually large area under water at all times. Tank has convenient shelf-top. *Rough-in 12 in. or more.* Also sold on Wards Budget Plan. See Page 3. For supply pipe to wall or floor add 50c. *State which.*

181 PHB 856—White outfit.....\$21.50

Also in Orchid, Green, Ivory. Colored Seat to Match.

181 PHB 858—*State color.*.....\$33.75

## SYPHON WASH DOWN

**\$11<sup>95</sup>**

Freight Prepaid

A good selection—it offers such a lot in appearance and in satisfaction for such a low price. The tank and bowl are First Quality Vitreous China. A Colonial design with convenient shelf-top tank. The efficient wash-down flushing action is shown in small illustration.

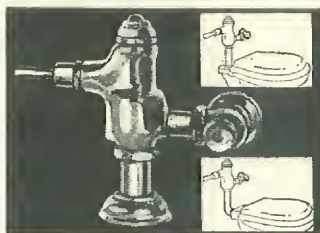
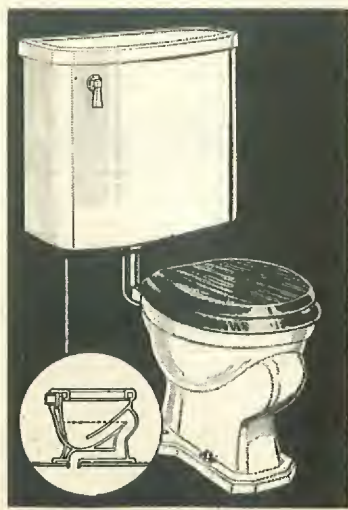
The select hardwood seat will not warp or peel. All seats with chromium plated hinge, and rubber bumpers. Chromium-plated, screws and washers included. *Rough-in is 14 inches.* (See explanation in "How to Order".) For supply pipe to wall or floor add 50c. *State which.* Wards prepay freight on this closet, saving you about 10%. See Page 3 for Wards Budget Plan.

181 PHB 821—White Outfit With Mahogany Seat.....\$11.95

181 PHB 823—With White Seat 12.95

181 PHB 824—With porcelain enameled cast iron tank and Mahogany seat. Wards Low Price.....\$14.95

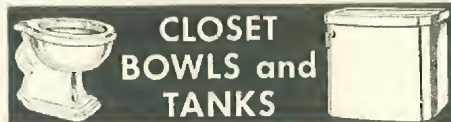
181 PHB 825—With porcelain enameled cast iron tank and White seat. Wards Low Price.....\$15.95



### FLUSH VALVE

**\$10<sup>95</sup>**

Popular for homes, schools, office buildings and factories. It represents the latest development in the construction of flush valves—it embodies only such features as are necessary for the successful operation of commercial water closets. Operates without a tank—1¼ to 2-inch spud reducer included. Nothing to get out of order—Length of flush can be adjusted to suit the action of various forms of closets—Adjustable from outside without turning off water supply. **Not Prepaid.** Ship. wts. 7 and 8 lbs.  
81 HB 6595—For top supply...\$10.95  
81 HB 6596—For back supply... 10.95



## CLOSET BOWLS and TANKS

If your closet outfit needs repairs, order at Wards, repair it yourself and make a double saving. We furnish easy-to-follow instructions. Be sure to read "How to Order" at top of page where the "rough-in" measurement is explained. First quality Vitreous China bowls and tanks. *White only.*

For supply pipe to wall or floor (*State which.*) add 50c to price of tank. Wards prepay freight on all closet bowls and tanks, saving you about 10%.

181 PHB 810—Syphon washdown style bowl with screws. *Rough-in, 10 inches.*.....\$6.45

Wards Low Price.....\$6.45

181 PHB 814—Syphon washdown style bowl with screws. *Rough-in, 14 inches.*.....\$3.95

181 PHB 805—Syphon jet style bowl with screws. *Rough-in, 12 inches.*.....\$8.25

181 PHB 808—Reverse trap bowl with screws. *Rough-in, 14 inches.*.....\$5.45

181 PHB 818—Vitreous china tank for washdown bowl or reverse trap bowl. Chromium-plated fittings and screws. Less supply pipe.....\$6.25

181 PHB 847—Vitreous china tank for syphon jet bowl, with chromium-plated trimmings. Less supply pipe. Price.....\$6.75





### Sealed-in Sheet Celluloid

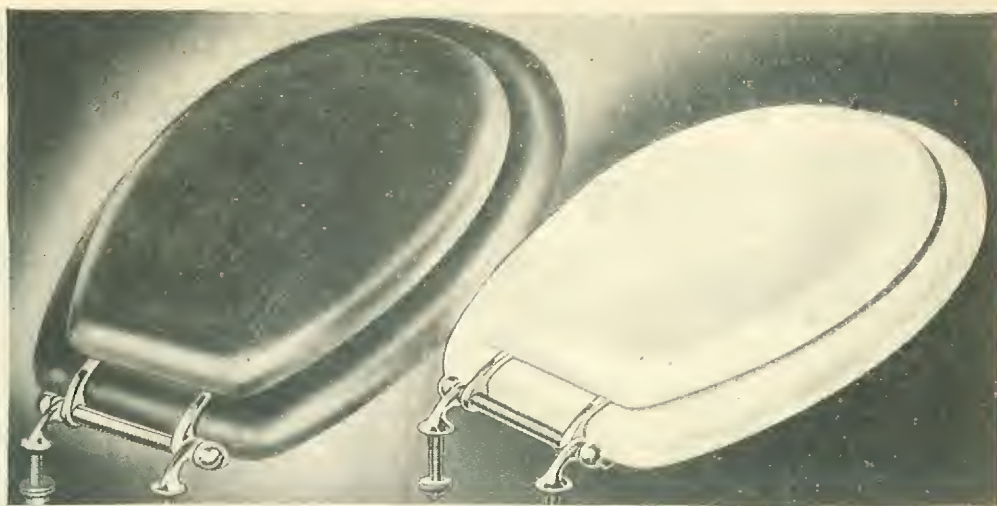
Completely covered with lap-welded sheet celluloid over close-grained 1 1/4-in. hardwood. The sheet construction is the finest known—because it retains its original lustre. Glued and hickory doweled front and rear to prevent cracking and splitting. The smooth glistening surfaces are easily kept clean with a damp cloth. Has Chromium plated brass bar hinge and live rubber bumpers. Fits all regular bowls. *Choice of colors:* White, Green, Orchid or Ivory. Ship. wt. 9 lbs. *Mailable.*

481 HB 6497—*State color.*.....\$3.39

#### Mother of Pearl Closet Seat

Beautiful, glistening Mother of Pearl lap-welded sheet celluloid covered. Same construction as seat above. White, Green, Orchid or Ivory. Ship. wt. 9 lbs.

481 HB 6499—*State color. Mailable.*.....\$5.49



### Polished Oak or Mahogany

The attractive natural grain of the hardwood is preserved to add to the appearance of this Closet Seat. It is exceptionally low-priced for a quality seat of such sturdy, solid construction. The full 1 1/4-in. stock is air dried, thoroughly seasoned and quarter sawed to assure a smooth, lasting surface, and to keep it from slivering. It is glued and doweled front and rear with 1/2-in. cross-grained spiral hickory dowels, which make it warp-proof, split-proof and crack-proof. It is stained and varnished and rubbed by hand to a smooth finish. Equipped with live rubber bumpers and a brass bar hinge heavily plated with glistening tarnish-proof Chromium. Fit all regular closet bowls. Shipping weight 7 pounds. *Mailable.*

481 HB 6489—Varnished Oak.....\$1.89

481 HB 6490—Mahogany Finish.....1.89

### Sprayed-on Celluloid

Wards now offer you a choice of beautiful colors—Green, Orchid, or glistening White—all at the same low price. Made of close-grained hardwood, 1 1/4-in. thick, completely incased with sprayed-on seamless celluloid, then rubbed to a glistening finish. It will never crack, craze, peel off or discolor—even after many years of service. It is sanitary and its smooth surfaces are easily kept clean. The celluloid completely envelops the wood, keeping out moisture. Glued and doweled front and rear with 1/2-in. spiral hickory dowels to make it warp-proof, split-proof and crack-proof. Has live rubber bumpers and solid brass bar hinge heavily plated with brilliant, tarnish-proof Chromium. An attractive seat for any bathroom. Fits all regular closet bowls. Ship. wt. 9 lbs.

481 HB 6491—*State color. Mailable.*.....\$2.29



### A Seat for the Outdoor Toilet

**\$1.49** This seat brings to the out-house the comfort and sanitation of an indoor closet seat. Screws down over the present hole. The edges are rounded and much more comfortable, as it is shaped like most expensive indoor seats. Made of 3/4-inch hardwood with smooth, moisture repelling gray enamel finish that is neat looking and easily cleaned. Has hinged lid for further sanitation and convenience. 4 screws included. Size 18 by 18 inches. Ship. wt. 7 lbs.

481 HB 6474—*Mailable.*.....\$1.49

481 HB 6467—Same, but no lid. Ship. wt. 5 lbs......98c

## FROST-PROOF CLOSET

No Matter How Cold the Weather—It Cannot Freeze

Very simple and positive in operation. Water supply is installed below frost line (about 3 ft. under ground). Tank is filled by automatic valve on water supply, only when seat is occupied. When seat is released, water in tank flushes closet and tank remains empty until closet is used again. Especially recommended where heat is not constant and freezing is likely. Requires very little room for installation because of the shape of the closet. Tank measures 8 in. by 24 in. and may be mounted in either vertical or horizontal position. Closet bowl is of cast iron, enameled inside and painted outside. Equipment includes closet bowl, heavy quarter sawed oak seat, galvanized steel tank, flush pipes, lead waste connection. Trap and soil pipe not included. Furnished with hopper to catch unless ordered with flange. Ship. wt. 83 lbs. *Shipped from stock in Baltimore or Albany.* For Low Freight Rates, see Page 2 under "Water Closet Bowls."

181 HB 6478—Complete as described.....\$20.95

**\$20.95**



## CLOSET SUPPLIES . . . Small Things You Save a Lot on at WARD'S



#### Ball Cock

Brass rod and refill tube, no float. Ship. wt. 2 lbs.

81 HB 6483.....69c

81 HB 6486—*With removable china seat.*.....95c

**Copper Float**

Ship. wt. 12 oz.

81 HB 6485—Each. 13c



#### Rubber Tank Balls

Made of heavy live-rubber. Price includes ball with stem. Ship. wt. 6 oz. *State size.*

81 HB 6481

Diameter 2 1/2 inches.....10c

Diameter 2 3/4 inches.....12c



#### Unusually High Quality

Pure, live highest quality rubber. Extra heavy construction. Brass stem included. Made to fit all size tank valves.

81 HB 6482—Ship. wt. 6 oz.....25c



#### Lead Bend and Ferrule

Ship. wts. 17, 18 and 20 lbs.

481 HB 6850—*State size.*

4 by 12 in. ....\$2.75

4 by 14 in. ....3.00

4 by 18 in. ....3.50

Price is subject to market changes.



#### Cast Iron Closet Bend

Diameter 4 inches, length 16 inches. Each side tapped for 1 1/2-inch iron pipe.

Adjustable flange. Ship. wt. 22 lbs.

481 HB 6897.....\$1.15

Each.....



#### Lead and Iron Ferrule

Calks into a 4-inch soil pipe. Ship. wts. 7, 9 and 10 lbs. *State size.*

81 HB 6846

4 by 8 in. Ea. \$1.28

4 by 10 in. Ea. 1.55

4 by 12 in. Ea. 1.75

Prices subject to market changes.

For BUDGET PLAN See Page 3

## AUTOMATIC CLOSET

**\$11.45**

Complete



#### Closet Bowl Flush Valve Seat

Requires no tank. Patent valve flushes automatically when seat is lowered and raised.

Has roll rim cast iron bowl, enameled inside and painted outside. Sanitary—easy to keep clean.

Heavily constructed oak finished seat. Equipment includes seat, closet bowl and flush valve.

Threaded for 1/2 inch iron pipe. Ship. wt. 44 lbs. *Shipped from Stock in Baltimore or Albany.* For Low Freight Rates see Page 2 under "Water Closet Bowls."

181 HB 6480—Complete.....\$11.45

181 HB 6484—*Bowl only tapped for 3/4 inch iron pipe.* Ship. wt. 35 lbs.....\$6.75

BA MONTGOMERY WARD 11

#### Roof Flashings

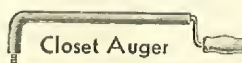


Forms waterproof joint with soil pipe. Adjustable to any pitch roof. 81 HB 6888—Galvanized with lead collar. *State size.*

Pipe size...	2 in.	4 in.	5 in.
Ship. wt. ....	2 lbs.	3 lbs.	6 lbs.
Each.....	12 oz.	8 oz.	70c
	60c		\$1.00

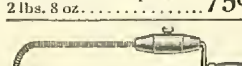
81 HB 6886—All lead. *State size.*

Pipe size...	2 in.	4 in.	5 in.
Ship. wt. ....	4 lbs.	6 lbs.	7 lbs.
Each.....	95c	\$1.25	\$1.70



#### Closet Auger

Stoppage removed easily. Oil tempered wire about 3 feet long. 81 HB 6470—Ship. wt. 2 lbs. 8 oz.....75c



#### Sewer Auger

Oil tempered wire. Opens traps, sewer pipes, etc. Length 6 feet. 81 HB 6471—Ship. wt. 1 lb. 12 oz.....35c



#### Flat Sewer Rod

1/4 inch flat high carbon blue steel. 25 ft. long. Revolving ball on end facilitates bending for 90 degree elbows reaming out all stoppage. Coil is fed from inside and is easily rewound on frame. Diameter of coil when wound is about 8 inches. 81 HB 6472—Ship. wt. 1 lb. 4 oz.....75c



#### Rubber Force Cups

**13c**

Strong live rubber cup with 24-inch hardwood handle.

Shipping weights 1 lb. 4 oz. and 1 lb. 8 oz.

81 HB 6512—Diameter

4 1/2 inches.....13c

81 HB 6513—Diameter

5 1/2 inches.....17c



# Wards Prepay the Freight On All Bathroom Lavatories



## The Colonial \$5.45

First Quality White Enamel. Chromium-plated fittings include single stream faucet or pair of faucets, both with pop-up waste. Supply pipes, trap connections and hangers.

Without Fittings

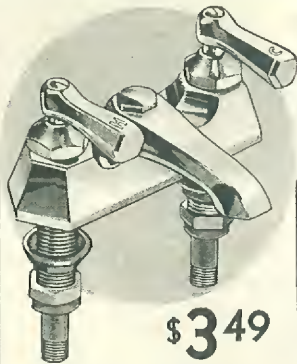
Lavatory with Pair of Faucets (shown in sketch above).  
17 by 19-in. top; 10 by 14-in. bowl. Freight Prepaid.

	Kind of Fittings		Kind of Fittings
181 PHB 506	To wall ...	181 PHB 516	To wall ...
181 PHB 507	To floor ...	181 PHB 517	To floor ...
181 PHB 505	Lav. only ...	181 PHB 515	Lav. only ...

Lavatory with Single Stream Fitting (shown on lavatory)  
17 by 19-in. top; 10 by 14 in. bowl. Freight Prepaid.

	Kind of Fittings		Kind of Fittings
181 PHB 509	To wall ...	181 PHB 513	To wall ...
181 PHB 510	To floor ...	181 PHB 514	To floor ...
181 PHB 508	Lav. only ...	181 PHB 512	Lav. only ...

Also in Orchid, Green or Ivory. For color add \$2.50. State color.



\$3.49

### Choice of Single Stream Faucet

Modern. Made entirely of brass, Chromium Plated. Mixes hot and cold water. Not prepaid.

81 HB 5447—Complete as shown above. Ship. wt. 3 lbs. .... \$3.49

81 HB 5448—Complete with Pop-up Waste, shown in small picture at right of pedestal lavatory. Ship. wt. 4 lbs. \$4.98

### USE WARDS BUDGET PLAN

Buy now . . . pay as you use and enjoy your new merchandise. See Page 3 for complete details on Wards Budget Plan of Monthly Payments.

### Wards Save You 5% On Any Three Pieces

Select the lavatory, tub and closet you like best from Wards complete selection of individual pieces—add up their prices, and deduct 5%. Wards give you this saving on any three bathroom pieces.



## Your Choice of White—Orchid—Green or Ivory

\$12.75 White

Without Fittings

First Quality Porcelain Enamel on sturdy cast iron. Art-Line Faucets plated with tarnish-proof Chromium. Pop-up waste. Chromium Plated trap, supply pipes, iron pipe connection, instructions and hangers. Top is 24 by 20 in.; bowl, 12 by 16 in.; 5-in. apron; height 31 in. State color. Freight Prepaid.

Lavatory with Pair of Faucets (as shown on lavatory)

181 PHB 538—With Fittings to Wall.....	\$20.75 White	\$24.75 Color
181 PHB 539—With Fittings to Floor.....	21.75 White	25.75 Color
181 PHB 541—Lav., without Fittings.....	12.75 White	16.75 Color

Lavatory with Single Stream Fittings (shown in small picture)

181 PHB 543—With Fittings to Wall.....	\$20.75 White	\$24.75 Color
181 PHB 544—With Fittings to Floor.....	21.75 White	25.75 Color
181 PHB 542—Lav. without Fittings.....	12.75 White	16.75 Color



## Popular Round Front \$4.25

Without Fittings

Popular, compact design . . . Moderately priced. Top 17 by 19 in.; bowl 10 by 14 in. Can be had with a pair of faucets or single stream mixing faucet. One piece cast iron heavily blanketed with First Quality White Porcelain Enamel. Exposed fittings are brass heavily plated with tarnish-proof Chromium. Fittings include pair of faucets or single stream mixing faucet with trap, supply pipes, lavatory plug, stopper and chain, iron pipe connections. Wall hangers furnished. Wards Prepay the Freight on all lavatories, saving you about 15%. For details of Wards Budget Plan see Page 3.

Lavatory with Pair of Faucets (as shown on lavatory)  
181 PHB 523—Lavatory complete with fittings to wall..... \$9.15  
181 PHB 524—Lavatory complete with fittings to floor..... 9.95  
181 PHB 500—Lavatory only without fittings..... 4.25

Lavatory with Modern Single Stream Fitting (as shown in small sketch)

181 PHB 521—Lavatory complete with fittings to wall.....	\$10.45
181 PHB 522—Lavatory complete with fittings to floor.....	11.25
181 PHB 520—Lavatory only without fittings.....	4.25



## Handy Corner Style \$7.95

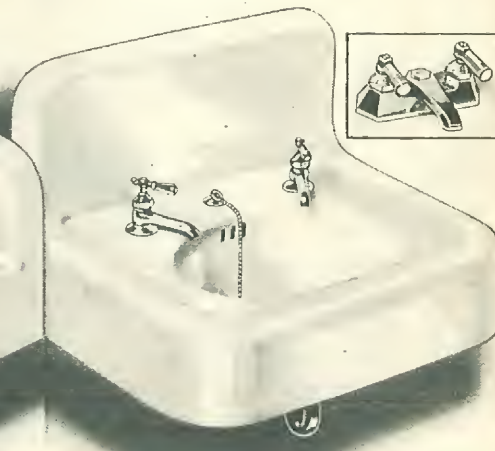
Without Fittings

If you prefer a Corner Lavatory, here is the ideal style . . . brought to you at Wards usual big Mail Order saving in price. First Quality White Porcelain Enamel over one-piece cast iron. Beautiful, tarnish proof Chromium Plated fittings—your choice of double faucets or single stream mixing faucet.

Large and roomy. Each side measures 17½ inches; bowl 14 by 10 inches; 4½ inch rim; 6 inch back. All exposed fittings Chromium Plated. Fittings include faucets, trap, supply pipes, stopper and chain, iron pipe connection. Wards prepay freight on all lavatories, saving you up to 15% of the price.

Lavatory with Pair of Faucets  
181 PHB 579—Complete with fittings to wall.....\$12.15  
181 PHB 580—Complete with fittings to floor. 12.95  
181 PHB 578—Lav. only, without fittings..... 7.95

Lavatory with Single Stream Faucet  
181 PHB 582—Complete with fittings to wall.....\$14.15  
181 PHB 583—Complete with fittings to floor.. 14.95  
181 PHB 581—Lav. only, without fittings..... 7.95



## Extra Large Top \$6.45

Without Fittings

Very large and roomy. Extra large top, 24 by 18 in.; deep bowl, 11 by 16 in.; and unusually high 9-in. back to protect the walls; 4½-in. apron. First Quality White Porcelain Enamel over one-piece cast iron.

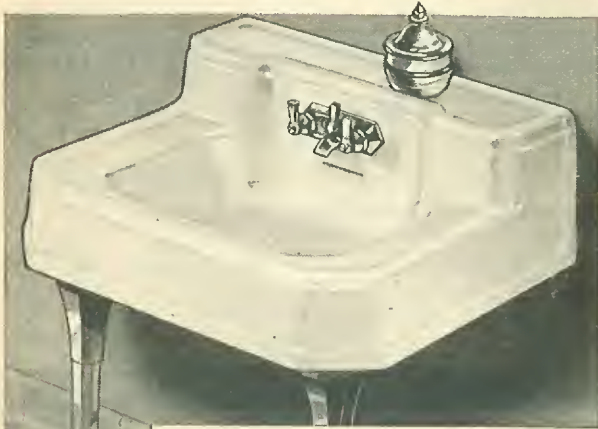
All exposed fittings plated with tarnish-proof Chromium. Fittings include faucets, trap, supply pipes, stopper and chain; iron pipe connection. Option of pair of faucets or single stream fitting. Nowhere can you find a more reasonable Budget Plan than Wards offer, see Page 3. Wards prepay freight on all lavatories, saving you up to 15% of the price.

Lavatory with Pair of Faucets  
181 PHB 531—Complete with fittings to wall..\$10.65  
181 PHB 532—Complete with fittings to floor.. 11.45  
181 PHB 530—Lav. only, without fittings..... 6.45

Lavatory with Single Stream Faucet  
181 PHB 533—Complete with fittings to wall.....\$13.15  
181 PHB 534—Complete with fittings to floor.. 13.95  
181 PHB 525—Lav. only, without fittings..... 6.95



# PLAN YOUR OWN BATHROOM



## Vanity Top Lavatory

**\$27<sup>95</sup>**

Vanity top provides room for lotions, creams, etc.; a tiny rim keeps them from sliding off. Luxurious, very smart Chromium Plated single stream faucet is recessed out of the way. Your choice of First Quality Porcelain Enamel or Stainless Vitreous China in White, Green, Orchid or Ivory. State color. Top is 24 by 20 in.; octagon basin, 16 by 11 in. Chromium Plated trap supply pipes with stops. Iron pipe connections and wall hangers. **Shipped Freight Prepaid.**

### Porcelain Enamel Lavatory

181 PHB 559—Complete with fittings to wall. White.....\$27.95 Colors.....\$33.95

### Vitreous China Lavatory

Same design, but First Quality Vitreous China. 181 PHB 558—Complete with fittings to wall. White.....\$39.95 Colors.....\$48.95

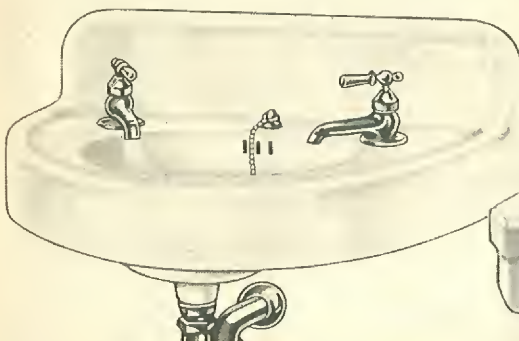
## Roll Rim...Thrift Special

Choose this good-looking Lavatory for the downstairs washroom. Takes little space and is a great convenience. Price comparisons will show you it's a real thrift special.

First Quality White Porcelain Enamel over one-piece cast iron. Back is 5 1/4 inches high; full 2 1/2-inch roll rim. Size of top 17 by 19 inches; bowl 10 by 14 inches. Plenty of room for ordinary purposes. **Prepaid Without Fittings**

The faucets are Chromium Plated—corrosion-proof, long lasting. The metal handles are indexed hot and cold. Furnished with trap, supply pipes, and cast iron wall hanger. **All Enamelware Shipped Freight Prepaid.**

181 PHB 561—Complete with trap to wall.....\$8.35  
181 PHB 562—Complete with trap to floor.....9.15  
181 PHB 560—Lavatory only.....4.15



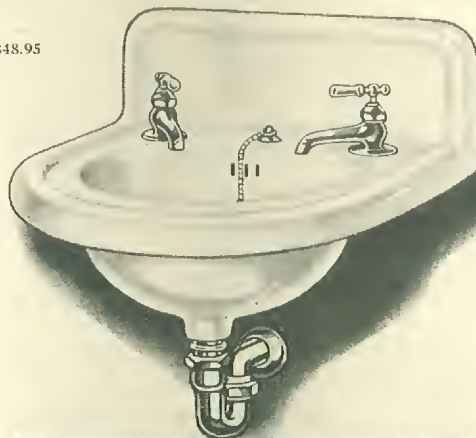
## SPACE SAVER... For Narrow Rooms

This Lavatory projects from the wall about three inches less than an ordinary lavatory... an important space saving where every inch counts. Size 26 by 14 inches. Oval basin is generous size for washing comfort.

Like all Wards lavatories, the White Enamel is First Quality... over one-piece cast iron. Chromium Plated faucets and supply pipes; complete with stopper and bead chain. Your choice of fittings to wall or floor. **All Enamelware Shipped Freight Prepaid.**

181 PHB 548—Complete with fittings to wall.....\$12.65  
181 PHB 549—Complete with fittings to floor.....13.45  
181 PHB 535—Lavatory only, without fittings.....8.45

**\$8<sup>45</sup>**  
**Prepaid**  
**Without Fittings**



## Wards Give You a 5% DISCOUNT On Any 3 Pieces

On Pages 6, 7, and 8 we have assembled seven attractive bathroom outfits. All of these are priced at 5% less than the total of the individual pieces.

Yet because there are many other possible combinations of the tubs, closets, and lavatories shown in this book, we have a great new plan to save you money when you make up your own bathroom.

### WHAT YOU DO...

Select any three pieces—the closet, tub, and lavatory you like best from Pages 10, 12, 13, 14, 15—add up their prices, and deduct 5%.

Complete bathroom outfits are usually priced only slightly less than three individual pieces. Now Wards give you a clear cut saving of 5%—and you can choose from the outfits we have assembled on Pages 6, 7, and 8 or make up your own outfit.



## New Design Lavatory

Many months ago Wards designers began work on a new lavatory of distinctive modern appearance. The attractive result is shown above.

**\$6<sup>45</sup>**

### Less Fittings

First Quality like all of Wards line, this new lavatory is White Porcelain Enamel over a base of one-piece cast iron. The single stream mixing faucet is of the latest design, heavily chromium plated. The top is 17 by 19 inches with a 5 1/4 inch back. The bowl is full 10 by 14 inches and 5 inches deep.

Fittings include faucet, Chromium Plated supply pipes, trap, iron pipe connections and wall hangers. Your choice of fittings connecting to the wall or floor. **Shipped Freight Prepaid.**

181 PHB 590—Lavatory Only.....\$6.45  
181 PHB 591—Complete. Fittings to Wall.....12.65  
181 PHB 592—Complete. Fittings to Floor.....13.45

## Shower Supplies



Shower Valves **\$2<sup>45</sup>**



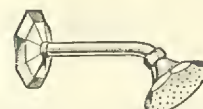
Pressure Shower **\$1<sup>95</sup>**

Chromium Plated cast brass—tarnish-proof... corrosion-proof. Metal escutcheons and metal handles indexed "H" and "C." Brass unions included for making connection to water pipes. Threaded for 1/2-in. iron pipe. Shipping weight 2 pounds 12 ounces.

81 HB 6540—Hot. \$2.45  
81 HB 6541—Cold. 2.45

Cast brass Shower Head, bright tarnish-proof Chromium Plated finish. Will never rust. Ball and socket swivel jointed—can be adjusted to any convenient position. Adjustable face from a tiny spray to a strong, invigorating shower. Threaded for 1/2-in. iron pipe. Ship. wt. 1 lb. 4 oz.

81 HB 6511.....\$1.95



Chromium Plated Shower Head **\$1<sup>95</sup>**

This Shower Head is ideal for use in either tubs or shower stalls. Order this head and a pair of the shower valves shown above. Wards new modernistic Artline design. All exposed parts tarnish-proof Chromium Plated... Always bright and gleaming... will never become rusty. Ball jointed head gives a strong flow—moves in all directions. Shower arm has 1/2-in. pipe thread. Complete with fange. Pipe not included. Ship. wt. 2 lbs.

81 HB 6544—Each. **Not Prepaid.**.....\$1.95

## 20th CENTURY—VITREOUS CHINA

**\$11<sup>95</sup>**  
**Prepaid**  
**Without Fittings**

Wards Prepay Freight on all enamelware.

A beautiful modern design Lavatory in Stainless Vitreous China. Wards famous Artline fittings—both faucets and the pop-up waste heavily Chromium Plated. Top 20 by 18 in.; bowl 11 by 15 in.; 6-in. back. For green, orchid, or ivory, add \$6.00 to prices below. State color. Your choice of fittings to wall or floor.

### White China Lavatory With Leg (Pictured)

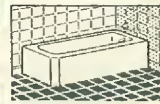
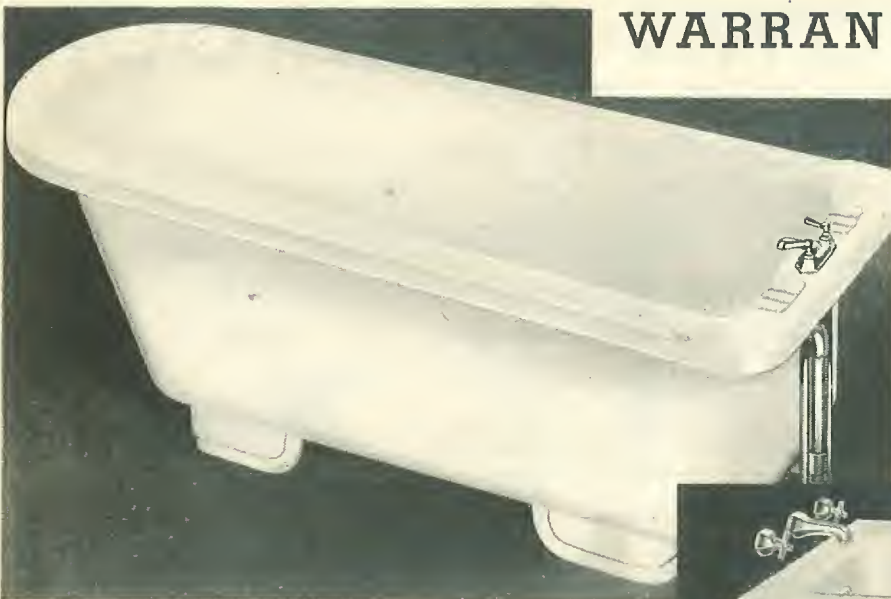
181 PHB 596—Complete with fittings to wall.....\$19.45  
181 PHB 597—Complete with fittings to floor.....20.25  
181 PHB 595—Lavatory only.....11.95

### White China Lavatory Without Leg

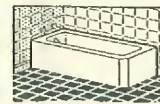
181 PHB 586—Complete with fittings to wall.....\$15.45  
181 PHB 587—Complete with fittings to floor.....16.25  
181 PHB 585—Lavatory only.....8.95



# WARRANTED FIRST QUALITY in White or Colors



Right Hand  
Corner Tub



Left Hand  
Corner Tub

Regular  
fittings, not  
built-in. Stop-  
per and chain.

Built-in con-  
cealed fittings.  
Lifting waste.

Built-in over  
rim fittings.  
Stopper and  
chain.



## How to Order Corner Tubs

Face the wall against which the long side of the tub is to be set. If the end of tub is to fit against the corner at your right hand, order a right corner tub. If it is to fit against the corner at your left hand, order a left corner tub.

## New Design Leg Style Tub

**\$19.95**  
5 ft.

Many months ago Wards designers began work to design a tub that would be attractive and distinctive in appearance and still be in the low price range. Pictured here is the design that they chose from hundreds of others because it meets all requirements.

Attractive and distinctive, to be sure. The new design, modernistic legs, the flattened roll rim with the bevel edges, and the two soap dishes on either side of the faucet take care of that. Those soap dishes are especially handy because you always have soap within easy reach.

The faucet is a new design, too, so that it harmonizes perfectly with the tub design. It is made of heavy cast brass, thickly plated with glistening tarnish and corrosion-proof Chromium that is so easily kept sparkling—just wipe it off with a damp cloth.

The tub is one-piece high grade cast iron blanketed inside and over the rim with the finest First Quality Porcelain Enamel; the outside and legs are painted white. The legs are cast iron with modern rounded corners.

The tub is 5 feet long, 30 inches wide and 19 inches high, overall. The legs are 4 inches high. Tub complete with fittings includes faucet, Chromium plated supply pipes, connected waste and overflow and stopper and chain.

Shipped Freight Prepaid—an additional saving.

181 PHB 799—Tub Alone. No fittings.....\$19.95  
181 PHB 798—Tub Complete with all Fittings..... 25.95

Without  
Fittings

## CORNER TUBS In White or Colors

Newest panel sides—smooth modern corners—dazzling Chromium plated solid brass fittings—First Quality Enamel over one-piece cast iron. Your choice of White, Green, Orchid, or Ivory. For color add \$10.00 and state in order. Complete with iron pipe connections, instructions, ready to install. 30 in. wide, 18 in. deep. For Wards Budget Plan of Monthly Payments see Page 3. Wards Prepay Freight on all enamelware, bringing you an added saving of about 15%.

Corner Tub for right hand corner (fittings in right end).

Article No.	Kind of Fittings	5-Ft. Tub	5½-Ft. Tub
181 PHB 744	Over Rim	\$39.75	\$43.95
181 PHB 745	Concealed	44.75	48.95
181 PHB 740	Tub Only	30.75	34.95

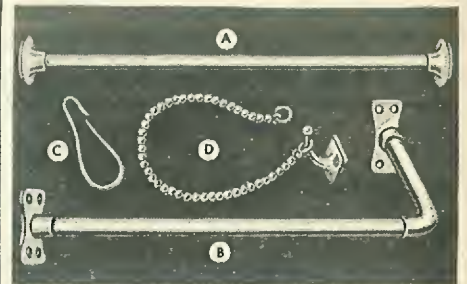
Corner Tub for Left Hand Corner (pictured).

Article No.	Kind of Fittings	5-Ft. Tub	5½-Ft. Tub
181 PHB 754	Over Rim	\$39.75	\$43.95
181 PHB 755	Concealed	44.75	48.95
181 PHB 750	Tub Only	30.75	34.95

## WARDS PAY FREIGHT ON ENAMELWARE

That means savings for you up to 15% on heavy cast iron tubs, lavatories, kitchen sinks, china closets, and bowls and tanks.

## SHOWER RODS and ACCESSORIES



Metal, heavily plated with bright tarnish-proof Chromium. Rods have flanges and screws.

481 HB 6531—Straight Rod (A) and 12 Snaps (C). Fits all recess tubs. Ship. wt. 5 lbs.....\$1.95

481 HB 6561—Curved Rod (B) and 18 Snaps (C). Fits all corner tubs. Ship. wt. 7 lbs.....\$3.59

81 HB 6562—Curtain Snaps (C). Ship. wt. per doz. 5 oz. Price per dozen.....23c

81 HB 6563—Hook and Chain (D). Wt. 4 oz.....23c



## Convenient Base Style

**\$19.45**  
4½ ft.

Without  
Fittings

Cast iron. Inside and 3-in. roll rim coated with Certified First Quality Porcelain Enamel. Outside painted white. Width 30 in.; inside depth 17 in.; height overall 22 in. Fittings include quick compression bath faucet with indexed metal handles, supply pipes, waste and overflow. All are solid brass—all exposed fittings are plated with brilliant, tarnish-proof Chromium. Iron pipe connections and instructions included. Wards Prepay Freight on enamelware. For Wards Budget Plan of Monthly Payments see Page 3.

Length of Tub. State Length.	4½ Ft.	5 Ft.	5½ Ft.
181 PHB 700—Tub only without Fittings.....	\$19.45	\$21.25	\$24.95
181 PHB 705—Tub complete with Fittings as shown.....	23.95	25.75	29.45
181 PHB 701—Tub with extra heavy Artline Faucet and all fittings beautifully Chromium-plated.....	25.45	27.25	30.95



## Ever-Ready Showers

Stick to Any Smooth Wall

**\$1.69**

Modern, portable, in-  
expensive, all-purpose  
shower that can be at-  
tached by the strong

**98c**

suction cup any place or at any height on painted walls, tile, glass, bath tubs, etc.—all it requires is a smooth surface to adhere to. No brackets to scratch the enamelware or screws to mar the walls. Gives all the convenience of a built-in shower, but no expensive installation.

The faucet connection can be adjusted to different types of faucets—small, medium, large, round or oval. Equipped with 5-ft. of jumbo type, corrugated, live rubber tubing. All metal parts are brass, plated with Chromium. Choice of Colors—Green, or Red. State Color. Packed in individual boxes.

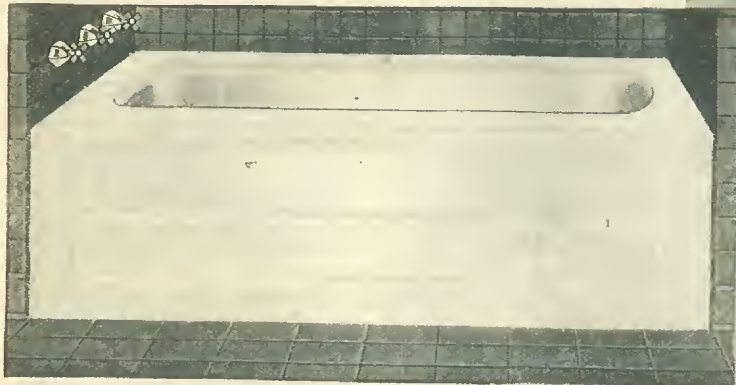
**Adjustable Head**  
81 C 6466—Has all the features listed above and also has adjustable head. Ship. wt. 2 lbs..\$1.69

**Stationary Head**  
81 C 6459—Has all the features listed above. Has stationary head. Not adjustable. Ship. wt. 1 lb. 8 oz.....98c



# PORCELAIN ENAMEL

## Wards Prepay Freight



**\$11.45**  
4½ ft. Tub

Without Fittings



### Built-in Recess Tub

There's no need for you to be satisfied with anything less than the most modern fixtures. Wards bring you these beautiful recess Tubs at the usual cost of ordinary fixtures. The entire tub is heavy, durable one-piece cast iron, entirely blanketed in First Quality Porcelain Enamel—your choice of White, Green, Orchid, or Ivory. For a color other than white, add \$9.00 and state color. With iron pipe connections and instructions. 30 in. wide, 18 in. deep. Wards Prepay Freight on all enamelware. For Budget Plan of Monthly Payments, see Page 3.

**\$25.95**  
4½ ft. Tub  
Without Fittings

#### RECESS TUB WITH FITTINGS IN RIGHT END

Article Number	Kind of Fittings	4½-ft. Tub	5-Ft. Tub	5½-Ft. Tub
181 PHB 726	Over Rim	\$34.95	\$36.95	\$40.25
181 PHB 727	Concealed	39.95	41.95	45.25
181 PHB 720	Tub Only	25.95	27.95	31.25

#### RECESS TUB WITH FITTINGS IN LEFT END

Article Number	Kind of Fittings	4½-ft. Tub	5-Ft. Tub	5½-Ft. Tub
181 PHB 736	Over Rim	\$34.95	\$36.95	\$40.25
181 PHB 737	Concealed	39.95	41.95	45.25
181 PHB 730	Tub Only	25.95	27.95	31.25

### Popular Leg-Style Tub

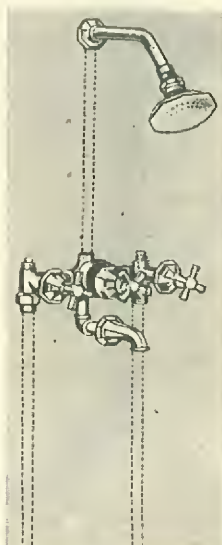
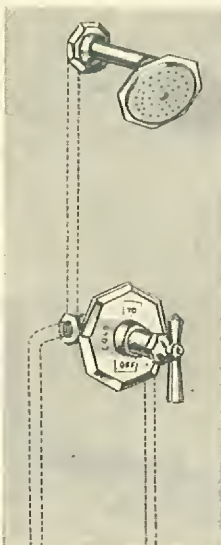
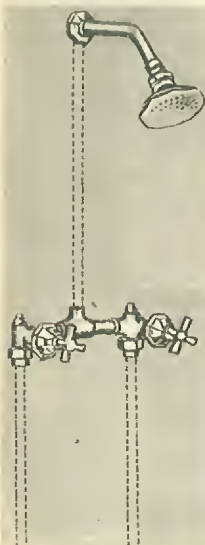
Cast iron blanketed with Porcelain Enamel on inside and over roll rim. Outside painted white. All exposed fittings plated with tarnish-proof Chromium. Tub with fittings include faucet with indexed metal handles; connected waste and overflow; supply pipes to floor, flanges and connections. State length of tub. Wards Prepay Freight on Enamelware. For Complete Details of Wards Budget Plan of Monthly Payments, see Page 3.

#### WARDS WALTON SENIOR TUB—IN WHITE ONLY

Width 30 in.; depth inside 17 in.; height, 22½ in., 3-in. roll rim.	4½ ft. long	5 ft. long	5½ ft. long
181 PHB 710—Tub only without fittings.	\$11.45	\$13.45	\$16.45
181 PHB 715—Tub with Fittings as shown in tub above.	15.95	17.95	20.95
181 PHB 711—Tub with extra heavy Art Line Faucet (See small sketch) and fittings all beautifully Chromium-plated.	17.45	19.45	22.45

#### WARDS WALTON JUNIOR TUB—IN WHITE ONLY

Width 26 in.; depth inside 17 in.; height 22 in. with 3-in. roll rim.	4½ ft. long	5 ft. long
181 PHB 760—Tub only without fittings.	\$11.45	\$13.45
181 PHB 765—Tub complete with Fittings as shown in large picture.	15.95	17.95



### Concealed Type Shower

**\$6.45**

For built-in tubs and shower stalls. Cast red brass with all exposed parts plated with brilliant tarnish-proof Chromium. Shower head has swivel joint, adjustable to any angle—an added feature of convenience. It furnishes a strong, invigorating spray in any direction. Indexed metal handles mix hot and cold water to the desired temperature. All parts accessible from the face of the wall. Can be installed at any height. ½-in. pipe connections. Pipe not included. Install it yourself and make an added saving. Ship. wt. 7 lbs. Not Prepaid.

481 HB 6567.....\$6.45

### Mixing Valve Shower

**\$5.95**

For built-in tubs or shower stalls. Lever handle mixes hot and cold water to the desired temperature. Install at any height you desire. Adjustable, jointed shower head gives strong spray. All exposed parts are heavily plated with bright, tarnish-proof Chromium. Valve body has ½-in. pipe tappings at sides and top. Working parts are replaceable from the face of the wall. The flange is included. Iron pipe not included. You can install it yourself and make an added saving. Ship. wt. 6 lbs. Not Prepaid.

81 HB 6502.....\$5.95

### Diverter Valve Shower

**\$13.95**

Shower and tub mixing faucet combined. Center handle diverts water to shower or tub as desired. Complete with waste and overflow. Brass with all exposed parts heavily Chromium plated. Adjustable from wall. For built-in corner or recess tubs. Supply connections for ½-in. pipe. Easy to install. Pipe not included. Not Prepaid.

481 HB 6526—Ship. wt. 16 lbs. Complete as described. \$13.95

#### With Lifting Waste

Same as above except spout is below tub rim and has lifting waste (no chain and stopper needed). Ship. wt. 24 lbs. 481 HB 6566.....\$19.95

### Oblong Frame Shower Outfit

**\$3.69**

Less Curtain

An honest-to-goodness Shower—at an almost unbelievably low price! The new oblong curtain frame, measuring 24 by 30 in., is one of the latest and most practical shower improvements. It gives you plenty of elbow room. The curtain fits inside the tub—no sloppy floors or soggy bathmats. Has 5-ft. rubber tube and handy, easy to attach slip-on faucet connection. Strongly made of heavy brass tubing, plated with bright tarnish-proof Chromium. The large shower head furnishes a generous, invigorating flow of water. The waterproof curtain is heavy white duck, 6 by 8½ ft. Complete with screws, brackets and curtain snaps. Ship. wt. 12 lbs. Not Prepaid.

481 HB 6525—Complete Outfit.....\$5.89  
Same as above but without the white duck curtain. 481 HB 6524—Ship. wt. 10 lbs.\* Not Prepaid.....\$3.69

### Portable Ring Shower Outfit

**\$2.59**

Less Curtain

Wards bring you all the comforts and conveniences that a shower affords at a surprisingly low price. Nothing invigorates one more than a nice cool shower after a hot, sticky day. So much quicker than drawing water for a bath. The large 6-inch shower head gives a fine even spray, and the 24-inch ring affords ample room. The metal parts are brass, nickel-plated. The 5 feet of rubber tubing with connection for the bath faucet are included. Screws, bracket and curtain snaps are included. The 6 by 6-foot white duck curtain fits inside the tub keeping the floor dry. Easy to install yourself, the only tool that you need is a screw driver. Complete. Ship. wt. 10 lbs.

481 HB 6522—Not Prepaid.....\$3.98  
Without Curtain  
Same as above except without the curtain. 481 HB 6507—Ship. wt. 8 lbs.....\$2.59

Read About Wards Budget Plan on Page 3

CBA MONTGOMERY WARD 15



# The *Finest* Cabinet Sinks that Wards Could Build

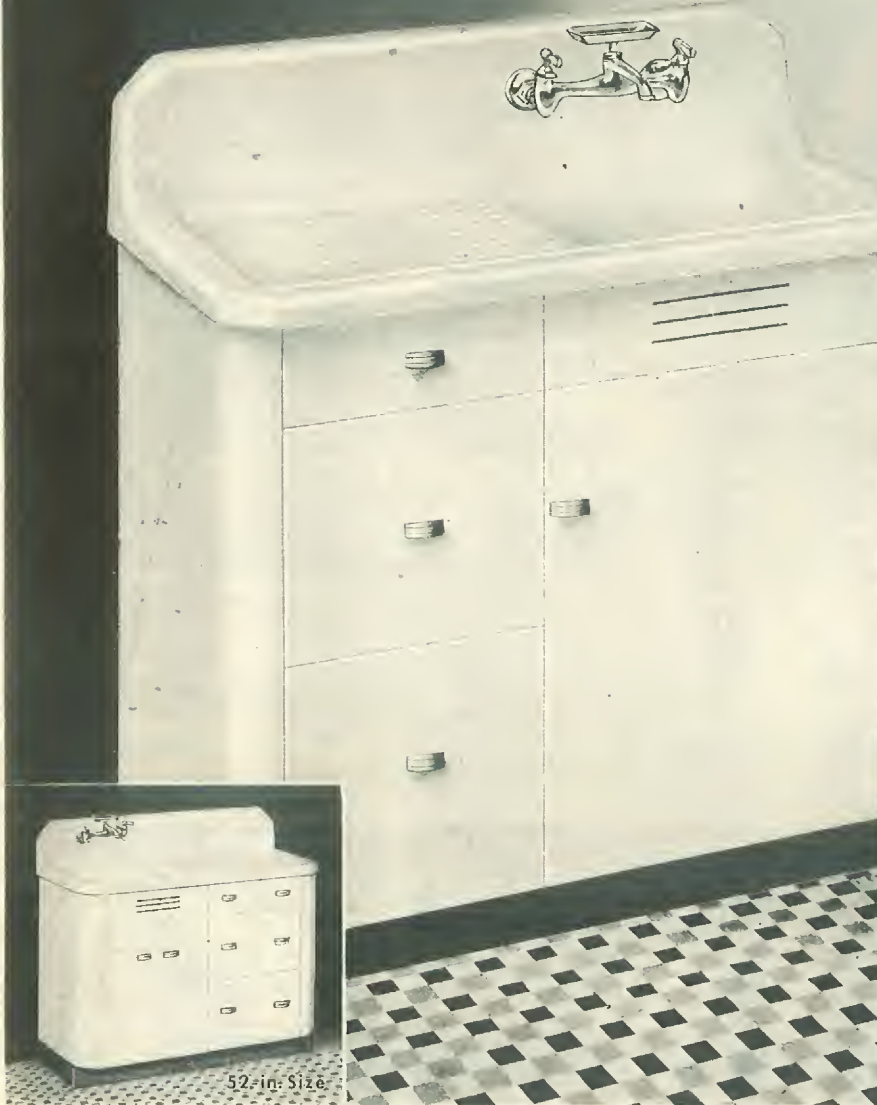
## AND WE PAY THE FREIGHT

Spectacular Low Prices have been made even lower by Wards new policy of prepaying freight on all porcelain enamel sinks, bathtubs, lavatories and china closets. This means an additional saving of about 15%.

And with these savings, Wards are giving you better merchandise than ever before. One look at the new complete line will determine that. Designed by Wards, these modern sink cabinets have the best features of every model all ready on the market—and added features exclusive to Wards.

### WARDS BUDGET PLAN

Under our Budget Plan of Monthly Payments, it is possible for you to enjoy the use of the merchandise while you are paying for it. A small amount down will put one of these beautiful cabinet sinks in your home, then pay for it in small amounts each month. For more complete details see Page 3.



**\$31<sup>95</sup>**  
CASH  
PRICE

**\$4 down**  
**\$5 a MONTH**

## First Quality Enamel OVER ONE PIECE CAST IRON

The sink of this beautiful model is cast iron covered with First Quality White Porcelain Enamel and has the new low 8-inch back. The graceful cabinet, like those on all Wards other models, is heavy rolled steel coated with gleaming white Du Pont DuLux, that's as easy to keep clean as a china dish.

More beautiful, of course, but utility has not been sacrificed in designing these cabinet sinks. The black steel base not only adds modern styling, but prevents dirt from getting under the cabinet. The base sets back, too, so there's ample room in front for your toes, and it's adjustable, giving heights from the floor to the drainboard of from thirty-three to thirty-six inches. The drawers and compartments are finished white inside. Stylish handles add to the gleaming white beauty of the modern cabinet.

Every detail shows the finest craftsmanship.

Drawers and compartments have neat lap edges which add greatly to the appearance of the cabinet. The highly polished, Chromium plated brass single stream faucet and sink strainer, included in Wards low price, are of high quality and will last for years. Nowhere, we believe, can you get comparable quality at such low prices.

This model is furnished in two sizes—one 42 inches long, the other 52 inches long. They have similar construction, except the 52 inch size has two doors instead of one in the large compartment under the sink basin and the fronts of the doors and drawers are double thickness. Wall hangers are furnished to anchor the sink securely to the wall so that the entire weight of the cast iron sink does not rest on the cabinet. Easy to install it yourself with the complete instructions that are included. *Trap not included—order trap for these sinks separately from Page 20 of this book.*

Length of Sink, Overall.....	42-inch Size	52-inch Size
Size of Sink Basin, Inches.....	20 by 22	20 by 28
Size of Drainboard, Inches.....	20 by 20	20 by 24

*Wards Prepay Freight on these Sinks; for Wards Budget Plan See Page 3.*

181 PHB 687—42-inch Size, with Right Hand Drainboard. Complete, <i>Freight Prepaid</i> .....	\$31.95
181 PHB 677—42-inch Size, with Left Hand Drainboard. Complete, <i>Freight Prepaid</i> .....	31.95
181 PHB 688—52-inch Size, with Right Hand Drainboard. Complete, <i>Freight Prepaid</i> .....	42.95
181 PHB 678—52-inch Size, with Left Hand Drainboard. Complete, <i>Freight Prepaid</i> .....	42.95



## Acid Resisting Porcelain ON SINKS OF ARMCO IRON

**\$39<sup>95</sup>**  
CASH  
PRICE

**\$4 down**  
**\$5 a MONTH**

The sinks are Armco Iron (trade name for the finest rolled steel) coated with Acid Resisting White Porcelain Enamel so that you need never fear stains from fruit juices, vegetables or other acids in the kitchen. Armco Iron is lighter than cast iron, and the under sides of these sinks have been padded with sound-proofing material.

The cabinets are heavy steel, coated with acid resisting White DuLux. Modern design handles. Black steel base is recessed in the front. Has 8-inch back. Height from floor to drainboard is 36 inches.

The Artline single stream mixing faucet is extra heavy brass coated with Chromium, as is the strainer. No wall hangers needed—sink rests on rubber pads on the cabinet. Two sizes—one 42-in. long, the other 52-in. The 52-in. size has these added features: wooden work board above the drawer, double thickness drawer and door fronts; and a 4-in. basket strainer instead of the 2-in. strainer on the 42-in. size. *Trap not included—order from Page 20. Freight Prepaid on these sinks.*

Length of Sink, Overall.....	42-inch	52-inch
Size of Sink Basin, Inches.....	22 by 24	22 by 24
Size of Drainboard, Inches.....	22 by 18	22 by 28

181 PHB 615—42-inch size, with Right Hand Drainboard. Complete, <i>Prepaid</i> .....	\$39.95
181 PHB 605—42-inch size, with Left Hand Drainboard. Complete, <i>Prepaid</i> .....	39.95
181 PHB 616—52-inch size, with Right Hand Drainboard. Complete, <i>Prepaid</i> .....	48.95
181 PHB 606—52-inch size, with Left Hand Drainboard. Complete, <i>Prepaid</i> .....	48.95



## Acid-Resisting Porcelain ON SINKS OF ARMCO IRON

**\$59<sup>95</sup>**  
PREPAID

See Budget Plan  
Information Page 3

No worry about acid stains from fruit juices, vegetables or vinegar, when you buy this Sink of First Quality Acid-resisting Enamel over one-piece Armco Iron (the trade name for the finest rolled steel). The sink is padded on the under side with sound-proofing material that goes away with the ringing so common in steel sinks. It has the added advantage of being much lighter than cast iron—no wall hangers are needed. The sink rests on rubber pads on the top of the cabinet, making installation extremely easy. The sink is sixty inches long with two roomy drainboards each nineteen by twenty-two inches. The deep basin is twenty-two by twenty-two inches. The height from the drainboard to the floor is thirty-six in.

The cabinet is strong steel coated with acid-resisting DuPont DuLux, the same finish that is used on refrigerators. The handy drawers and compartments are finished white inside and have double thickness drawer and door fronts. The handles are attractive and add to the appearance of the cabinet. Dirt can't get under the floor-sealed base, which is recessed in the front to allow ample toe room.

### Faucet is Wards Finest

The beautiful single stream mixing faucet is the most modern design—Wards finest. It is extra heavy, made of brass, thickly Chromium plated for long wear. The soap dish is easily removable to facilitate cleaning. As added features the sink is furnished with a basket strainer, shown below, and a wooden workboard for slicing fruits, bread, vegetables, etc. *Trap not included—order it separately from Page 20.* Instructions for installing are included—install it yourself and make an added saving. Wards Prepay the Freight on this cabinet and sink—giving you an added saving of about 15%. May be purchased on Wards Budget Plan of Monthly Payments—for complete details on this plan see Page 3.

181 PHB 660—Cabinet and sink complete with faucet and basket strainer. *Prepaid*.....\$59.95



### Basket Strainer

Basket lifts out to empty. Turn knob and you have a stopper. Brass, Chromium plated. For sinks with 3 1/2-in. waste outlet only. Ship. wt. 2 lbs. 4 oz. *Not Prepaid.* 81 HB 6899.....\$1.79

## First Quality Enamel OVER ONE PIECE CAST IRON

**\$54<sup>95</sup>**  
PREPAID

See Budget Plan  
Information Page 3

The sink is sixty inches long with two roomy drainboards, each nineteen by twenty-two inches. You'll find it easier to work at this extra large sink because there is plenty of room for everything on the two drainboards. And the beautifully finished cabinet gives you added storage space for pots and pans, silverware and linens. The sink itself is durable cast iron covered with First Quality Porcelain Enamel.

The single stream mixing faucet is of good quality—brass heavily plated with sparkling Chromium—just wipe it off with a damp rag and its original lustre is restored. The modern design of the handles emphasizes the beauty of the cabinet. The 4-in. Basket Strainer, shown above, is another attractive feature. The basket catches all food particles, peelings, etc., and is easily removed by the small knob.

### Extra Cupboard Space

The cabinet is designed to utilize and make attractive the most unsightly part of the kitchen—under the sink. It is made of strong steel, coated with Du Pont DuLux, the same finish that is used on refrigerators—as easy to keep clean as your sink. Hidden partitions between compartments and double thickness door and drawer fronts show the finest workmanship. The drawers and doors are finished white inside. You'll like the handy wooden workboard above the top drawer at the right, for cutting bread, fruits, vegetables, etc. The black floor-sealed base keeps dirt from getting under the cabinet. It is recessed in the front to allow ample toe room.

The single stream mixing faucet is of good quality—brass heavily plated with sparkling Chromium—just wipe it off with a damp rag and its original lustre is restored. The modern design of the handles emphasizes the beauty of the cabinet. The 4-in. Basket Strainer, shown above, is another attractive feature. The basket catches all food particles, peelings, etc., and is easily removed by the small knob.

### Adjustable Height

The height to the drainboard from the floor is adjustable from 33 to 36 in. Wall hangers support the sink so that the entire weight of the heavy cast iron sink does not rest on the cabinet. *Trap not included—order it separately from Page 20.* Instructions included. Wards Prepay Freight on this sink and cabinet—an extra saving of about 15%. May be purchased on Wards Budget Plan, see Page 3 for details.

181 PHB 650—Cabinet and sink complete with faucet and basket strainer. *Prepaid*.....\$54.95

181 PHB 455—Sink only without cabinet or fittings. *Prepaid*.....\$21.95



# Wards Combine FIRST QUALITY

and WE PAY FREIGHT  
ON ENAMELWARE



The Enamelware Association stamp on Wards Sinks is your assurance that you're buying the best grade of porcelain enamelware on the market. All of Wards Enamelware must pass or excel the grading rules of the Sanitary Enamelware Association and comply with the specifications of the U. S. Bureau of Standards. Years of constant service have proved First Quality enamelware to be the finest finish you can choose for a sink. Now Wards give you extra savings by prepaying freight on all enamelware. That alone means a clear-cut saving up to 15%.

## Sink With Laundry Tub

Overall Length of Sink, Inches.....	42	50
Size of Sink, Inches.....	17 by 17 1/2	19 by 21 1/2
Chromium Drainboard, Inches.....	17 by 20	19 by 24 1/2

Wards prepay all freight charges on these sinks—that means an additional saving for you of about 15%.

See Page 3 for Wards Budget Plan of monthly payments.

### SINK WITH 4-INCH BASKET STRAINER White Sink, Right Hand Laundry Tub

Art. No.	Kind of Fittings	42 Inch	52 Inch
181 PHB 451	Complete Wall.....	\$32.75	\$37.75
181 PHB 452	Complete Floor.....	33.45	38.45
181 PHB 450	Sink only.....	21.95	26.95

### White Sink, Left Hand Laundry Tub

181 PHB 461	Complete Wall.....	\$32.75	\$37.75
181 PHB 462	Complete Floor.....	33.45	38.45
181 PHB 460	Sink only.....	21.95	26.95



**\$21.95**  
Freight  
Prepaid

With Drainboard  
But Without  
Legs or Fittings

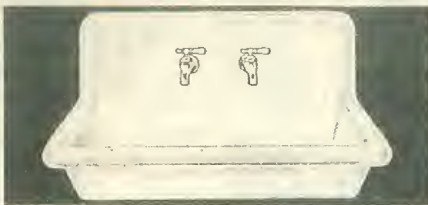
Remove the drainboard and you have a laundry tub large enough for regular washing. First Quality Enameled inside and out in White, Green or Ivory. Add \$7.00 for color and state color. 8-in. back; 8-in. apron. Fittings include strainer (2-in. or 4-in. basket strainer), mixing faucet, trap, waste pipe and drainboard—all Chromium plated. Legs not included. For pair of white enameled legs, add \$4.00; for pair of colored enameled legs, add \$4.95; for painted white legs, add \$2.75.

### SINK WITH REGULAR 2-INCH STRAINER White Sink, Right Hand Laundry Tubs

Art. No.	Kind of Fittings	42 Inch	52 Inch
181 PHB 423	Complete Wall.....	\$31.45	\$36.45
181 PHB 424	Complete Floor.....	32.15	37.15
181 PHB 425	Sink only.....	21.95	26.95

### White Sink, Left Hand Laundry Tubs

181 PHB 429	Complete Wall.....	\$31.45	\$36.45
181 PHB 430	Complete Floor.....	32.15	37.15
181 PHB 427	Sink only.....	21.95	26.95



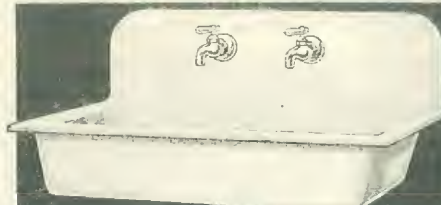
### CONVENIENT ROLL RIM

First Quality porcelain enamel. Faucets, trap and strainer are chromium plated. Faucet handles are metal. A choice of several sizes. Has 8-inch back, rolled rim. Wall hangers included. Wards prepay freight on this sink.

**\$5.45**

Without Fittings

Size Inches	181 PHB 300 Sink Only	181 PHB 303 Wall Fittings	181 PHB 304 Floor Fittings
18 by 24	\$ 5.45	\$ 9.75	\$10.25
18 by 30	7.60	11.95	12.45
20 by 30	7.95	12.25	12.75
20 by 36	10.95	15.25	16.00



### SERVICEABLE FLAT RIM

Very low priced. Heavy one-piece Cast Iron thickly coated with First Quality Porcelain Enamel inside, painted white outside. Just the sink when tile is used or in connection with built-in cupboards or cabinets. Fittings include chromium-plated high compression brass faucets; chromium plated strainer and trap. Wards prepay freight on this sink.

Size Inches	181 PHB 370 Sink Only Without Fittings	181 PHB 373 Trap to Wall	181 PHB 374 Trap to Floor
18 by 30	\$8.65	\$12.95	\$13.45
20 by 30	9.25	13.50	14.00

## SINK and PUMP Combination



So little to pay for so much convenience! Handy outfit for the home, cottage or camp without running water—for it saves the drudgery of carrying in water from the outside.

**\$8.95**

Complete

One-piece cast iron sink heavily coated with glistening white enamel inside and painted white outside. Chromium-plated strainer and trap for 1 1/2-in. pipe. Heavy cast iron pump is attractively painted and has convenient pitcher spout. Outfit is complete with steel frame, brackets and mounting board. Easy to install.

For wells up to 20 feet deep. 3-inch iron cylinder with 1 1/4-inch connection to suction pipe. Pipe connections included. Waste and suction pipe not included. State size. Shipped from stock.

For Freight Rates see "Sinks" on Page 2. Freight Not Prepaid.

Size of Sink, Inches	Shipping Weight	181 HB 5901 Trap to Wall	181 HB 5902 Trap to Floor
18 by 30	100 lbs.	\$ 8.95	\$ 9.45
20 by 30	132 lbs.	9.45	9.95
20 by 36	154 lbs.	12.45	12.95

## ADJUSTABLE SINK LEGS

All our Sinks have sturdy brackets or hangers. Many heavy cast iron sinks should have legs also. Made of cast iron with a choice of having it blanketed with First Quality Porcelain Enamel or painted white. Also offered in a choice of color of: White, Green or Ivory. Very easy to attach, these legs adjust in height by turning the top. Wards prepay freight on these legs—an extra 15% saving.

**\$2.75**

281 PHB 683—Painted white. Per pair. \$2.75  
281 PHB 684—White Enamel. Per pair. 4.00  
281 PHB 685—White, green or ivory enamel. State color. Per pair. \$4.95

## Washing is Easier with a Good Tub



### SWINGING FAUCET

Leakproof Construction

**\$5.95**

Tub only

One Piece  
TUB-  
STAND,  
FAUCET  
and TRAP

**\$9.75**

### LAUNDRY TUB

Enameled Inside

Large size heavy cast iron laundry tub with convenient flat rim. First Quality Porcelain Enameled inside, painted white outside. Can be set up singly, or two or more can be bolted together with wringer attachment between trays. Size of tub is 20 by 24 inches. Depth inside is 14 inches. Shipped from factory near Pittsburgh, Pa. Freight Not Prepaid.  
281 HB 6692—Complete with painted pedestal. Ship. wt. 125 lbs. \$9.75



No seams, easy to keep clean. Special long-wearing smooth stone composition. Rounded corners to protect fabrics. Metal covered edges for clamping wringer. Width 24 in.; depth 16 in.; height 34 in. including stand. All tubs fitted with strainers and plugs, bolt and trap collar that fits both 1 1/2 and 1 1/4-in. sink traps. Fittings include steel stand, cast iron trap and swinging spout laundry faucet. Ship. wt. 400 lbs.  
Tub and Stand shipped from factory near Philadelphia, Pa., Kingston, N. Y., or Buffalo, N. Y. Faucet and trap shipped from Stock. Low Freight Rates on Page 2. Freight Not Prepaid.  
281 HB 6696—Two compartment tub only. Length 48 in. No fittings or stand. \$5.95  
181 HB 7095—With fittings and stand. 8.95  
281 HB 6697—Steel stand only. Ship. wt. 8 lbs. 1.15  
81 HB 6703—Swinging faucet for laundry tub. Ship. wt. 5 lbs. 1.69



# with NEWEST FEATURES

## Basket Strainer

\$1.79



No more soiled fingers caused by removing "dregs" from sink when you use this modern convenient Strainer. The deep Basket, which measures 4 inches in diameter, catches all the scraps, food particles, peelings, etc. and lifts out by the small knob for emptying. Turn the knob slightly and you have a stopper so that you can wash dishes or vegetables right in the sink. Made of solid brass, heavily chromium plated. *Can be used only with sinks drilled or made with 4 in. waste outlet.* Can be had with the sinks shown at the top of these two pages.

31 HB 6899—Ship. wt. 2 lbs. 4 oz. *Not Prepaid.* \$1.79

## In White, Green or Ivory

One piece cast iron blanketed with First Quality Porcelain Enamel. Sink with fittings included—Modern Mixing Faucet; trap; and your choice of 2-in. strainer or 4-in. basket strainer. All plated with tarnish proof chromium; 1½-in. pipe connections, wall hangers and instructions for installing. Back is 8 in. high. *In White, Green or Ivory—For color, add \$4 and state color.*

### SINK WITH REGULAR 2-INCH STRAINER

Art. No.	Kind of Fittings	42 Inch	52 Inch
181 PHB 331	Complete Wall	\$17.45	\$25.15
181 PHB 332	Complete Floor	17.95	25.65
181 PHB 319	Sink only	11.75	19.45
<b>White Sink, Left Hand Drainboard</b>			
181 PHB 329	Complete Wall	\$17.45	\$25.15
181 PHB 330	Complete Floor	17.95	25.65
181 PHB 318	Sink only	11.75	19.45



## WARDS POPULAR SELLER

\$975

First quality porcelain enamel. Non-tarnishing chromium-plated faucets with Metal handles, trap and strainer. Low 8-inch back. *Without Fillings*

Wards prepay freight on these sinks, saving you up to 15%. Budget Plan on Page 3.

Length of Sink, inches..... 42 52  
Size of Sink Basin, inches..... 20 by 22 20 by 28  
Size of Drainboard, inches..... 20 by 20 20 by 24

### White Sink With Right Hand Drainboard

Art. No.	Kind of Fittings	42 in.	52 in.
181 PHB 356	To Wall	\$13.95	\$18.25
181 PHB 357	To Floor	14.45	18.75
181 PHB 355	Sink without Fittings	9.75	14.00

### White Sink With Left Hand Drainboard

Art. No.	Kind of Fittings	42 in.	52 in.
181 PHB 351	To Wall	\$13.95	\$18.25
181 PHB 352	To Floor	14.45	18.75
181 PHB 350	Sink without Fittings	9.75	14.00



## STEEL FLAT RIM SINK

\$298

Similar to Flat Rim Sink at right except that it has base of steel. Much lighter in weight—easy to install. Enameled inside with first quality, acid-resisting porcelain enamel. Outside is also covered with rust-resisting baked enamel. *Furnished only in white.* Budget Plan on Page 3.

Wards prepay freight on these sinks.

Size Inches	181 PHB 192 Sink Only	181 PHB 195 To Wall	181 PHB 196 To Floor
16x24	\$2.98	\$5.10	\$5.60
18x30	3.15	5.25	5.75
20x30	3.65	5.75	6.25

## CRYSTAL DOUBLE DRAINBOARD

\$2495

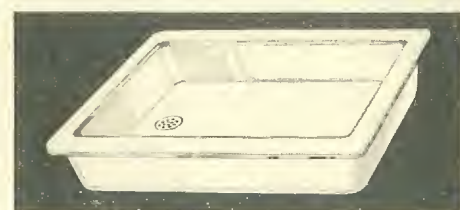
Plenty of room for everything. This handsome model is of cast iron heavily coated with lustrous first quality porcelain enamel. Fittings are all chromium plated including the convenient mixing faucet with handy swinging spout, the trap, and large Basket Strainer shown at the top of the page. Removable self draining metal soap dish and unbreakable metal faucet handles. Sink is 60 inches long, and has deep 22 by 22-inch basin and two 19 by 22-inch drainboards. 8-inch back and 6-inch apron. Offered in White, Green, or Ivory.

Wards prepay freight on these sinks, saving you up to 15%. See Page 3 for full details of Wards Budget Plan.

### CAST-IRON WHITE SINK.

181 PHB 498—With Fittings to Wall.....	\$31.95
181 PHB 499—With Fittings to Floor.....	32.45
181 PHB 497—Sink Without Fittings.....	24.95

For Cast Iron Sink in Green or Ivory add \$7.50 extra. *State color wanted.*



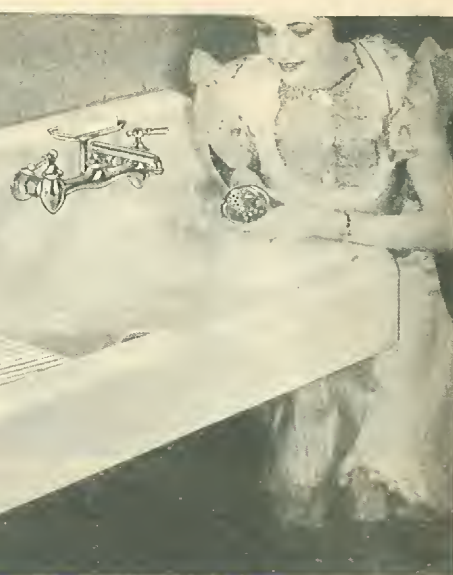
## CAST IRON FLAT RIM SINK

\$298

Enduring Cast Iron. Inside, it's spotless white porcelain enamel. Outside, where it won't show, it's neatly painted white. Build a cabinet for it yourself. *Without Fillings*

Opening for 1½-inch strainer like 81 PHB 6876, Page 20. Wards prepay the freight on these sinks, saving you up to 15%. Budget Plan on Page 3.

Size Inches	181 PHB 692 Sink Only	Cast Iron Complete Strainer and Trap
12x18	Not Included	181 PHB 695 To Wall
16x24	\$2.98	181 PHB 696 To Floor
18x30	3.15	\$5.10
20x30	3.35	5.25
20x36	4.00	5.45
	6.45	6.10
		9.00

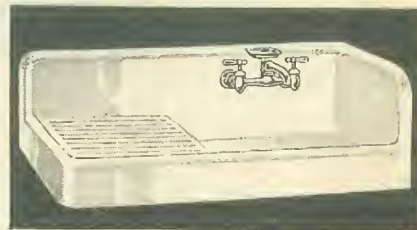


Length Overall, Inches.....	42	52
Sink, Inches.....	20 by 22	20 by 28
Drainboard, Inches.....	20 by 20	20 by 24

Wards prepay freight on these sinks, saving you up to 15%. For details of Wards Budget Plan, see Page 3. Write to Wards Engineering Department for prices on sinks with acid-resisting enamel.

### SINK WITH 4-INCH BASKET STRAINER

Art. No.	Kind of Fittings	42 Inch	52 Inch
181 PHB 426	Complete Wall	\$18.75	\$26.45
181 PHB 428	Complete Floor	19.25	26.95
181 PHB 419	Sink only	11.75	19.45
<b>White Sink, Left Hand Drainboard</b>			
181 PHB 420	Complete Wall	\$18.75	\$26.45
181 PHB 421	Complete Floor	19.25	26.95
181 PHB 418	Sink only	11.75	19.45



## HAMPTON CORNER SINK

\$1695

The 8-inch end and back protect your walls. First Quality Porcelain Enamel. Chromium mixing faucet, with swinging spout. Large Basket Strainer shown above. Hangers and Instructions included. Length of Sink, inches..... 42 52  
Size of Sink Basin, inches..... 20 by 22 20 by 28  
Size of Drainboard, inches..... 20 by 20 20 by 24  
Wards prepay freight on these sinks, saving you up to 15%. See Page 3 for Wards Budget Plan.

### White Sink for Left Hand Corner

Art. No.	Kind of Fittings	42 in.	52 in.
181 PHB 441	To Wall	\$23.95	\$29.75
181 PHB 442	To Floor	24.45	30.25
181 PHB 440	Without Fittings	16.95	22.75

### White Sink for Right Hand Corner

Art. No.	Kind of Fittings	42 in.	52 in.
181 PHB 443	To Wall	\$23.95	\$29.75
181 PHB 444	To Floor	24.45	30.25
181 PHB 445	Without Fittings	16.95	22.75



## SINK BACKS and DRAINBOARDS

\$345

Make your flat-rim cast iron sink up-to-date. Heavily coated First Quality Porcelain Enamel. Drainboard gives you a place to put dishes. Back keeps the walls from getting soiled. *Without Fillings*

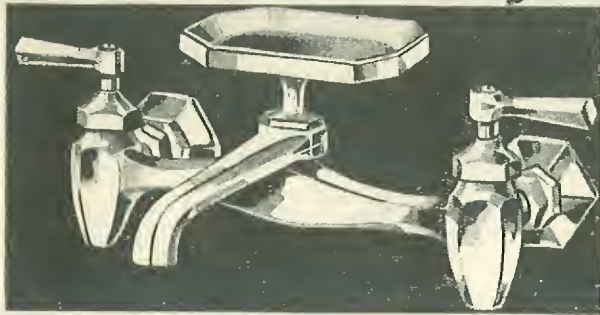
Easy to attach. Same drainboard is used for right or left side. Cannot be used on Steel Sinks.

181 PHB 664—White enameled Sink Back. Faucet holes 8 inches apart. Use only with 30-in. size flat cast iron rim sinks.....	\$3.45
181 PHB 667—Drainboard 20 in. long. For cast iron sinks 18 in. wide.....	\$4.75
181 PHB 669—Drainboard 24 in. long. For cast iron sinks 20 in. wide.....	\$5.45

Wards prepay the freight on these sinks.



# Better Fittings at Greater Savings



## Colonial Design Mixing Faucet

**\$475** You'll get more pleasure out of this heavy, modern Sink Faucet than from almost anything you ever bought for your kitchen. It mixes the water and delivers it from a single spout at just the temperature you want. And the spout (with removable strainer) swings from side to side! Also note the improved position of the spout, it's mounted on top of the fixture so you can set a pail under it.

A beautiful design. Heavy cast brass with bright chromium plating. Renewable bronze seats. Removable self draining soap dish. Indexed metal handles. Threaded for 1/2-inch iron pipe connection. Will fit all standard sinks. *Mailable*. Ship. wt. 6 lbs.

81 HB 5505—Chromium plated.....\$4.75

## Mixing Faucet Fits All Sinks

**\$279** Chromium  
Plated



Another new sink mixing faucet—modern in design and with the latest improvements. By all means, get one. It mixes the hot and cold water in a single stream. So much more convenient! It's easily attached, you can do it yourself. All you need is a wrench. Will fit all standard sinks. Renewable bronze seats prolong life of faucet.

This one is cast brass with brass handles and self draining removable brass soap dish—all chromium plated. The spout swings to either side and is mounted on top of the fixture to give increased clearance for utensils in the sink. This is an improved feature.

Threaded for 1/2-inch iron pipe connections. Adjustable flanges from 7/8 to 8 1/4 inches. *Mailable*. Ship. wt. 6 lbs.

81 HB 5499—Chromium plated.....\$2.79

## SPARKLING-TARNISHPROOF BATH FAUCETS



## Unusual Quality At This Price

**\$129** Here's a new bathtub faucet at an extremely low price. A little lighter in weight than the one at the right, but well made and efficient. Plated with non-tarnishing chromium. Quick compression operation. Easily installed, all you need is a wrench. Handles marked "H" and "C." May be installed in any leg or base style tub. 81 HB 5467—Wt. 2 lbs. 4 oz. \$1.29

Toilpieces for Bath Faucets  
81 HB 5439—Tailpiece threaded for 1/2-in. supply pipe connection. 3/4-in. faucet connection. Ship. wt. 1 lb. per pair. 35c

## New—Beautiful Modern Design

**\$219** A beautiful faucet for the bathtub. Designed on the same modern lines as our new Lavatory fixtures. Removable bronze seats. Heavily chromium-plated—non-tarnishing.

New modern metal handles indexed "H" and "C" and practically unbreakable. Quick compression operation.

Easily installed in any leg or base style tub. Standard threaded for connections to water supply pipes. Shipping weight 3 pounds.

81 HB 5477.....\$2.19

## Drain Pipe Solvent

Simply pour in sink, wash basin, etc. and add water. This immediately gives a hot chemical reaction inside the pipe that dissolves grease, lint, etc., removing stoppage. Ship. wt. 1 lb. 8 oz.

Bulk prices on request.  
681 HB 6515—Can.....15c  
3 cans.....39c

## Faucet Washers

One dozen composition beveled washers of assorted sizes with 6 brass screws. *Mailable*.

Shipping weight 4 ounces.  
81 HB 5508.....10c

## SINGLE STREAM LAVATORY FAUCET

Convenient! Permits you to mix hot and cold water so that it runs from a single faucet at just the temperature you want. You can wash with running water, there being no necessity for using stopper and mixing the water in the bowl. The convenient pop-up waste, so much handier than the old style chain and stopper.

Attach to any lavatory having openings for separate faucets and pop-up waste. Slip joints permit adjustment to fit slight variations between openings in lavatories.

Complete with heavy brass pipe and connections shown in picture. Shipping weight 9 pounds.  
81 HB 5468—*Mailable*.....\$8.95



Modern—tarnish proof chromium-plated faucets. Cross-metal handles, indexed H and C. Removable seat can be lifted out by unscrewing head, making it possible to replace the only part which wears eventually. Fits practically all lavatories. Tail pieces for 1/4-in. pipe connections. Shank threaded 1/2-in. Ship. wt. per pair 3 lbs. 8 oz.

81 HB 5450—Per pair.....\$2.79

## Lavatory Faucets

Compression action faucets. Fit all lavatories. Well made of heavy cast brass for years of service. Heavily plated with sparkling non-tarnishing chromium. Choice of metal lever or 4-Ball Metal Handle. Indexed "Hot" or "Cold." For iron, lead or nickel plated supply pipe connections. Ship. wt. 1 lb. 8 oz.

## Metal Lever Handle Faucet

81 HB 5453—"Hot." Each.....89c  
81 HB 5454—"Cold." Each.....89c

## Four-Ball Metal Handle Faucet

81 HB 5462—"Hot." Each.....89c  
81 HB 5463—"Cold." Each.....89c

## Lavatory and Sink Traps

For every requirement. Use with all Standard Sinks and Lavatories. Made of 17 or 20-gauge Brass Tubing nickel plated or chromium plated. Complete with flanges. All 17-gauge traps have clean-out plugs. Priced low because we sell direct. *Mailable*.

**LAVATORY TRAPS—17-Gauge—1 1/4-in. diameter**  
Ship. wt. 2 lbs. and 3 lbs. Nickel Plated Chrome Plated  
S Trap to Floor 81 HB 6616...\$1.75 81 HB 6606...\$2.25  
P Trap to Wall 81 HB 6617...1.25 81 HB 6607...1.59

**LAVATORY TRAPS—20-Gauge—1 1/4-in. diameter**  
Ship. wt. 2 lbs. and 3 lbs. Nickel Plated Chrome Plated  
S Trap to Floor 81 HB 6611...\$1.29 81 HB 6601...\$1.69  
P Trap to Wall 81 HB 6613...98c 81 HB 6603...1.29

**SINK TRAPS—17-Gauge—1 1/2-in. diameter**  
Ship. wt. 3 lbs. 8 oz. Nickel Plated Chrome Plated  
S Trap to Floor 81 HB 6881...\$2.45 81 HB 6858...\$2.98  
P Trap to Wall 81 HB 6877...1.45 81 HB 6857...1.89

**SINK TRAPS—20-Gauge—1 1/2-in. diameter**  
Ship. wt. 2 and 4 lbs. Nickel Plated Chrome Plated  
S Trap to Floor 81 HB 6874...\$1.69 81 HB 6884...\$2.29  
P Trap to Wall 81 HB 6870...1.09 81 HB 6883...1.49

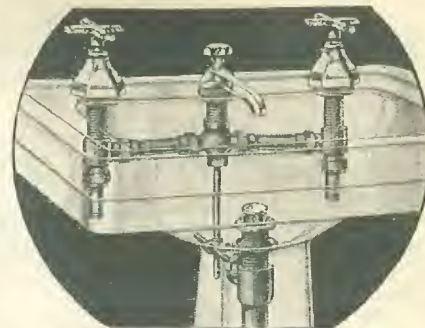
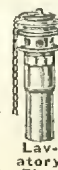
## Brass Sink and Lavatory Plug

Bright...rust-proof. Sink strainer for 1 1/2-in. traps; lavatory plug for 1 1/4-in. traps. Ship. wts. 8 and 12 oz. *Mailable*.



**Sink Strainer**  
81 HB 6876—Chromium Plated.....52c  
81 HB 6878—Nickel Plated.....40c

**Lavatory Plug**  
81 HB 6804—Chromium Plated.....47c  
81 HB 6802—Nickel Plated.....40c



Very Modern...Heavy Brass  
Thickly Plated with Bright  
Tarnish Proof Chromium

Heavy Brass well polished Metal handle. For 1/2 or 3/4-inch pipe. Ship. wts. 1 lb. 8 oz. *Mailable*.

81 HB 5443—State size.

Pipe Size	Ship. Wt.	Each
1/2-inch	1 lb. 4 oz.	50c
3/4-inch	1 lb. 8 oz.	55c



Has hose connection. Ship. wt. 1 lb. 8 oz. *Mailable*. State size.

**Finished Cast Brass**  
Pipe Size, In. 1/2 3/4  
81 HB 5442 55c 60c

**Rough Nickel Plated**  
Pipe Size, In. 1/2 3/4  
81 HB 5444 49c 55c



Made of cast brass, chrome-plated. Indexed handle. Adjustable flange. Ship. wt. 1 lb. 12 oz. *Mailable*. State size.

81 HB 5487—"Cold." 1/2-in. \$1.09 3/4-in. \$1.25  
81 HB 5486—"Hot." 1/2-in. \$1.09 3/4-in. 1.25



Heavy cast brass plated with sparkling chromium. Solid metal lever handles...quick compression action. Threaded for 1/2 or 3/4-inch pipe. Shipping weight 1 lb. 8 oz. *Mailable*. State size.



Pipe Size	Chromium Plated	
	81 HB 5480 "Hot"	81 HB 5481 "Cold"
1/2-in.	80c	80c
3/4-in.	90c	90c

## Lavatory Supply Pipes

Chromium or Nickel plated brass with flanges and connections for faucet. Fits 1/2-in. iron or lead pipe. Ship. wt. 1 lb. 8 oz. *Mailable*.

**Wall Supply Pipes**  
81 HB 5101—Nickel Plated. Per Pair.....75c  
81 HB 5103—Chromium Plated. Per Pair.....\$1.00

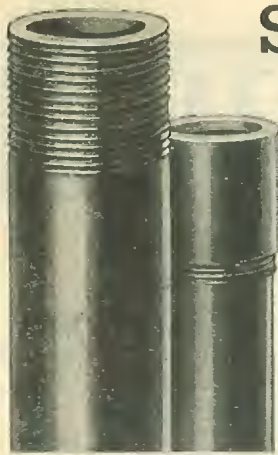
**Floor Supply Pipes**  
Shipping weight 2 lbs. 4 oz.  
81 HB 5102—Nickel Plated. Per Pair.....\$1.00  
81 HB 5104—Chromium Plated. Per Pair.....\$1.25

## Slip Nuts With Washers

Slip nut with rubber washer is used to connect brass tubing traps and wastes to iron pipe. Brass, Chromium-plated. Ship. wt. 1 to 3 oz.

Article Number	Iron Pipe Size	Outside Tubing Size	Price Each
81 HB 6631	1 1/2-in.	1 1/2-in.	15c
81 HB 6632	1 1/2-in.	1 1/2-in.	13c
81 HB 6633	1 1/2-in.	1 1/2-in.	15c
81 HB 6634	1 1/2-in.	1 1/2-in.	15c





# STEEL PIPE—Black or Galvanized

Meets Requirements of American Society for Testing Materials

Clean Perfect Threads . . . All Perfect Welds . . . Standard Gauge . . .

Uniform Thickness . . . Tested Up to 700 Lbs. Water Pressure

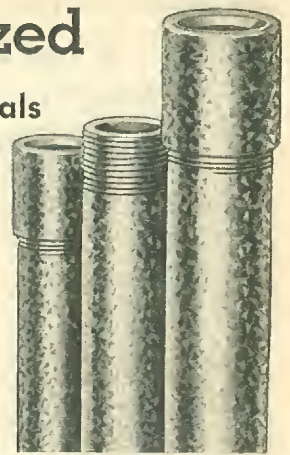
Wards low, money-saving Mail Order price makes the installation of anything but good new pipe very impractical. Every length of Wards Steel Pipe is tested to 700 pounds water pressure.

We ship pipe in random lengths from 18 to 21 feet, threaded on each end, and fitted with one coupling. If you want your pipe in exact lengths, we will cut and thread them. Charge is made for threading each end of each piece, and no couplings are furnished. State size.

For Low Freight Rates  
See Page 2

Pipe Size In.	Ship. Wt. Per 100 Ft. Lbs.	181 HB 5600 Black		181 HB 5602 Galvanized		Thread Extra Each End
		Per Ft.	100 Ft.	Per Ft.	100 Ft.	
1/8	25	3 3/4 c	\$ 3.68	5 1/4 c	\$ 5.16	5c
1/4	43	3 3/4 c	3.61	5c	4.97	5c
3/8	57	3 3/4 c	3.61	5c	4.97	5c
1/2	85	4 3/4 c	4.60	6c	5.79	5c
3/4	113	5 3/4 c	5.73	7 1/4 c	7.13	5c
1	168	8 1/4 c	8.05	10c	9.92	7c
1 1/4	228	11c	10.89	13 1/2 c	13.43	7c
1 1/2	273	13 1/4 c	13.03	16 1/4 c	16.06	9c
2	367	17 3/4 c	17.53	21 3/4 c	21.61	11c
2 1/2	582	27 3/4 c	27.72	34 1/4 c	34.16	15c
3	762	36 1/2 c	36.25	44 3/4 c	44.68	22c
3 1/2	920	42 1/2 c	42.47	52 3/4 c	52.60	28c
4	1089	50 1/2 c	50.31	62 1/2 c	62.33	33c

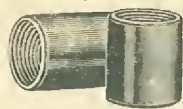
Prices Subject to Market Change



## COUPLINGS AND NIPPLES

## HOW TO ORDER PIPE

### Couplings



Size In.	181 HB 5378—Black		181 HB 5379—Galv.		Size In.	181 HB 5378—Black		181 HB 5379—Galv.	
	Each	6 For	Each	6 For		Each	6 For	Each	6 For
1/8	3c	15c	4c	20c	1 1/2	14c	70c	20c	\$1.00
1/4	3c	15c	4c	20c	2	18c	90c	26c	1.30
3/8	4c	20c	5c	25c	2 1/2	26c	\$1.30	36c	1.80
1/2	4c	20c	6c	30c	3	40c	2.00	53c	2.65
3/4	7c	35c	9c	45c	3 1/2	53c	2.65	64c	3.45
1	9c	45c	12c	60c	4	66c	3.30	92c	4.60
1 1/4	11c	55c	16c	80c	Ship. wts. 1 oz. to 6 lbs. State size.				

### WROUGHT STEEL NIPPLES—SHIP. WT. EACH 4 OZ. TO 2 LBS.

181 HB 5384—Black. State size and length.													181 HB 5385—Galvanized. State size and length.												
Length Inches													Length Inches												
Size In.	Close	Short	2	2 1/2	3	3 1/2	4	4 1/2	5	5 1/2	6		Size In.	Close	Short	2	2 1/2	3	3 1/2	4	4 1/2	5	5 1/2	6	
1/8	2c	2c	2c	3c	3c	3c	3c	3c	4c	4c	4c	4c	1/8	2c	2c	3c	3c	3c	3c	4c	4c	4c	5c	5c	5c
1/4	2c	2c	2c	3c	3c	3c	3c	3c	4c	4c	4c	4c	1/4	2c	2c	3c	3c	3c	3c	4c	4c	4c	5c	5c	5c
3/8	2c	2c	2c	3c	3c	3c	3c	3c	4c	4c	4c	4c	3/8	2c	2c	3c	3c	3c	3c	4c	4c	4c	5c	5c	5c
1/2	2c	2c	3c	3c	3c	3c	3c	3c	4c	4c	4c	4c	1/2	2c	2c	3c	3c	3c	3c	4c	4c	4c	5c	5c	5c
3/4	3c	3c	..	4c	4c	4c	4c	4c	5c	5c	5c	6c	3/4	3c	4c	..	4c	4c	4c	5c	5c	5c	6c	6c	7c
1	4c	4c	..	4c	4c	4c	4c	4c	5c	5c	5c	6c	1	4c	5c	..	5c	5c	5c	6c	6c	6c	7c	8c	9c
1 1/4	5c	6c	..	..	..	..	..	..	6c	6c	6c	7c	1 1/4	5c	7c	..	..	7c	7c	8c	8c	9c	10c	11c	12c
1 1/2	6c	7c	..	..	..	..	..	..	7c	7c	7c	8c	1 1/2	6c	7c	..	..	8c	8c	9c	9c	10c	11c	12c	13c
2	8c	9c	..	..	..	..	..	..	9c	10c	11c	12c	2	9c	11c	..	..	11c	12c	13c	13c	14c	15c	16c	17c
2 1/2	16c	17c	..	..	..	..	..	..	19c	21c	23c	24c	2 1/2	20c	20c	..	..	20c	22c	24c	26c	28c	30c	32c	34c
3	20c	22c	..	..	..	..	..	..	22c	24c	27c	30c	3	24c	27c	..	..	27c	29c	32c	34c	37c	40c	43c	46c
4	34c	42c	..	..	..	..	..	..	43c	46c	49c	53c	4	39c	49c	..	..	49c	53c	57c	61c	65c	69c	73c	77c

To find correct size of Pipe and Fittings, be sure to use the scale below. *Do not Use a Foot Rule*; scale is not in inches. Place end of pipe on scale with one side against line A. Scale reading at opposite side of pipe will show size of the pipe.

If ends of pipe are threaded, they will be slightly smaller than the pipe.

We ship Pipe in lengths taken at random measuring from 18 to 21 feet, threaded on each end with one coupling. If you order pipe in exact lengths, we will cut and thread them to the length desired, for an extra charge as quoted in tables. We do not include couplings with such specially cut lengths.

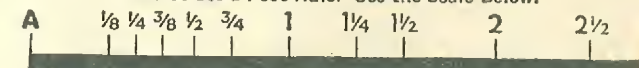
Pipe over 6 1/2 feet long shipped from stock by freight or express. Pipe under 6 1/2 feet Mailable.

### How to Order Pipe Fittings

Pipe Fittings are always quoted by the same size as the pipe they fit. For example, a 1/2-inch pipe takes a 1/2-inch fitting. Always order the same size pipe and fitting, if used together.

To measure a fitting, lay the edge of a card across center of opening of fitting; and indicate inside diameter by pencil marks. Lay this card on the scale below with one pencil mark at line A. The other pencil mark will indicate the correct size of the fitting.

Do Not Use a Foot Rule. Use the Scale Below.



For Quality Tools See Wards General Catalog

## PLUMBER'S SUPPLIES

**Malleable 90° Elbows**  
Ship. wts. 2 oz. to 2 lbs. 8 oz. State size.

Pipe Size	181 HB 5360—Black	181 HB 5361—Galv.
1/8	4c	20c
1/4	4c	20c
3/8	4c	20c
1/2	6c	30c
3/4	6c	30c
1	9c	45c
1 1/4	14c	70c
1 1/2	18c	90c
2	29c	\$1.45

**Malleable 90° Street Elbows**  
Ship. wts. 1 oz. to 2 lbs. 8 oz. State size.

Pipe Size	181 HB 5352—Black	181 HB 5353—Galv.
1/8	4c	20c
1/4	4c	20c
3/8	4c	20c
1/2	6c	30c
3/4	6c	30c
1	9c	45c
1 1/4	11c	55c
1 1/2	14c	70c
2	22c	\$1.05

**Malleable 45° Elbows**  
Shipping weights 3 oz. to 2 lbs. State size.

Pipe Size	181 HB 5362—Black	181 HB 5363—Galv.
1/8	4c	20c
1/4	4c	20c
3/8	4c	20c
1/2	6c	30c
3/4	6c	30c
1	9c	45c
1 1/4	12c	60c
1 1/2	17c	85c
2	22c	\$1.10

**Malleable 45° Street Elbows**  
Shipping weights 3 oz. to 2 lbs. State size.

Pipe Size	181 HB 5354—Black	181 HB 5355—Galv.
1/8	4c	20c
1/4	4c	20c
3/8	4c	20c
1/2	6c	30c
3/4	6c	30c
1	9c	45c
1 1/4	13c	65c
1 1/2	20c	\$1.00
2	25c	\$1.25

**Malleable Tees**  
When ordering Reducing Tees, state size of largest cut opening first, then the other end and then branch opening. Largest opening governs price. Reduce one size only at branch or at end opening. State size.

Straight Sizes				Reducing Sizes				Ship. Wt. Each
Pipe Size	181 HB 5356—Black	181 HB 5357—Galv.	181 HB 5358—Black	Pipe Size	181 HB 5356—Black	181 HB 5357—Galv.	181 HB 5358—Black	
1/8	5c	25c	7c	1/8	5c	25c	7c	4 oz.
1/4	6c	30c	8c	1/4	6c	30c	8c	4 oz.
3/8	6c	30c	8c	3/8	6c	30c	8c	4 oz.
1/2	8c	40c	10c	1/2	8c	40c	10c	8 oz.
3/4	12c	60c	16c	3/4	12c	60c	16c	1 lb.
1	19c	95c	25c	1	19c	95c	25c	1 lb. 8 oz.
1 1/4	24c	\$1.20	31c	1 1/4	24c	\$1.20	31c	1.55 lb.
1 1/2	28c	1.40	38c	1 1/2	28c	1.40	38c	2.45 lb.
2	38c	1.90	49c	2	38c	1.90	49c	2.45 lb.

**Malleable Reducers**  
Size given is the large end. Reduces one size only. Shipping weight 3 ounces to 1 lb. 8 oz.

Pipe Size	181 HB 5370—Black	181 HB 5371—Galvanized
1/8	4c	4c
1/4	4c	4c
3/8	4c	4c
1/2	4c	4c
3/4	4c	4c
1	4c	4c
1 1/4	4c	4c
1 1/2	4c	4c
2	4c	4c

**Malleable Bushings**  
Reduce one size. Ship. wts. 4 oz. to 1 lb. 8 oz. State size.

Pipe Size	181 HB 5390—Black	181 HB 5391—Galvanized
1/8	4c	4c
1/4	4c	4c
3/8	4c	4c
1/2	4c	4c
3/4	4c	4c
1	4c	4c
1 1/4	4c	4c
1 1/2	4c	4c
2	4c	4c

**Candle Wicking**  
Made of finely combed cotton, then it is twisted to make an ideal packing for traps, water gauges, faucets, and small valve stems. 2-oz. ball.

181 HB 5185—Ship. wt. 4 oz. . . . .10c

**Graphited Packing**  
Graphited asbestos wick packing. Positively waterproof. To be used for packing water, steam or air valves, pumps, compressors, etc. 3/8-inch twisted strand. Full 4-oz. balls. Ship. wt. 8 oz.

181 HB 5193 . . . . .19c

If your order is \$20 or more, you can buy any Wards merchandise on Wards Budget Plan—pay a little down and the balance in convenient monthly payments. See Page 3 for details.

**Malleable Iron Unions Brass Seat Ground Joint**  
No washer needed. State size. Ship. wts. 4 oz. to 3 lbs. 8 oz.

Pipe Size	181 HB 5392—Black	181 HB 5393—Galv.
1/8	4c	4c
1/4	4c	4c
3/8	4c	4c
1/2	4c	4c
3/4	4c	4c
1	4c	4c
1 1/4	4c	4c
1 1/2	4c	4c
2	4c	4c

**Malleable Pipe Caps**  
Ship. wts. 3 oz. to 2 lbs. 8 oz. State size.

Pipe Size	181 HB 5372—Black	181 HB 5373—Galv.
1/8	4c	4c
1/4	4c	4c
3/8	4c	4c
1/2	4c	4c
3/4	4c	4c
1	4c	4c
1 1/4	4c	4c
1 1/2	4c	4c
2	4c	4c

**Gasoline Blast Furnace**  
Rapid preheating and generating. May be used as blow torch for thawing frozen pipes, etc. Heavy duty all brass pump and one gallon tank with welded bottom. Uses only gasoline. Ship. wt. 12 lbs.

481 HB 5197—\$5.75

**Melting Lades**  
Double lip. Malleable iron. Ship. wts. 1 lb.; 1 lb. 8 oz.; 3 lbs.

84 HB 5206—State diameter.  
3-in. . . . .15c 4-in. . . . .25c 5-in. . . . .35c

**Asbestos Joint Runner**  
For pouring lead into horizontal soil pipe joints. Strong asbestos fibre, full 3/8-inch. Cast iron clamp. Easy to attach—fits close—no danger of lead leaking out. Adjustable for pipe from 2 to 6 inches in diam. Shipping weight 2 pounds.

181 HB 6788 . . . . .95c

**Galvanized Pipe Straps**  
Holds pipe firmly to walls, etc.

181 HB 7949—State size.

Pipe size in.	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Ship. wt. oz.	3	4	5	6	7	8	9	10
Per dozen	4c	5c	6c	8c	14c	16c	18c	20c

**Virgin Caulking Lead**  
Put up in bars about 5 pounds.

81 HB 5195—per bar . . . . .33c  
10 bars . . . . .\$3.10  
Prices subject to market change.

**Wiping Solder**  
Made from pure metals; 60 per cent Lead, 40 per cent Tin. Approximate 1-lb. bars. Less than bar not sold. Ship. wt. 1 lb. 4 oz.

81 HB 5190—Per bar . . . . .43c  
Price subject to market change.

**Rope Oakum**  
For calking all soil pipe and fittings. Full coil weighs 50 lbs. Ship. wts. 55 and 61 lbs.

81 HB 5646—Per coil . . . . .\$5.25  
81 HB 5647—About 5 lb. ball . . . . .55c

**Lead Wool**  
For calking joints in soil pipe. No melting required. Ship. wt. 1 lb. 4 oz.

81 HB 5601—Per lb. . . . .15c  
Price subject to market change.



## If You Don't See What You Want Here See Our General Catalog

"Anything from a pin to an anchor" used to be the old saying about the mail order catalog. And that just about covers the big variety of necessities you'll find in *Wards General Catalog* today.

In Tools, Hardware, Paints, Lighting Fixtures, Roofing, it's the guide to exactly the quality you want at money-saving prices. After ordering from this Plumbing, Heating and Building Material Catalog, turn to your copy of *Wards General Catalog* for those other things you need and increase your saving!



## High Grade Cast Iron . . Uniform Thickness and Strength . . Asphaltum Coated Inside and Out

THESE PRICES ARE FOR 5-FOOT LENGTHS OF PIPE.

Standard Weight—Single Hub			Standard Weight—Double Hub		
181 HB 6760—Size 2 in.	Ship. wt. 19 lbs.	.....65c	181 HB 6762—Size 2 in.	Ship. wt. 20 lbs.	.....70c
181 HB 6760—Size 4 in.	Ship. wt. 34 lbs.	.....\$1.15	181 HB 6762—Size 4 in.	Ship. wt. 36 lbs.	.....\$1.20
Extra Heavy Weight—Single Hub			Extra Heavy Weight—Double Hub		
181 HB 6761—Size 2 in.	Ship. wt. 29 lbs.	.....75c	181 HB 6763—Size 2 in.	Ship. wt. 30 lbs.	.....80c
181 HB 6761—Size 4 in.	Ship. wt. 65 lbs.	.....\$1.60	181 HB 6763—Size 4 in.	Ship. wt. 68 lbs.	.....\$1.70

For Estimated Freight Charges on Soil Pipe and Fittings See Page 2

For Closet Bends, see Page II



Deep Seal  
Floor Drain

Sewer can't back up and flood your basement. Copper ball float seals trap against back pressure. Ship. wts. 10 lbs. Size 2 inches.

481 HB 6733—With back water valve.....\$3.25  
481 HB 6734—Without back water valve.....\$1.95

Plain  
"P" Trap



481 HB 6810—Standard. 4-inch size. Shipping weight 19 lbs. Each.....\$2c  
481 HB 6811—Extra Heavy. 4-inch size. Shipping weight 27 pounds. Each.....\$1.00

Running Trap  
With Vent



Shipping weights 20 and 30 lbs.  
481 HB 6825—Standard. 4-inch size. Each.....\$1.36  
481 HB 6826—Extra Heavy. 4-inch size. Each.....1.70



Eighth Bends

481 HB 6770—Standard. 2-inch size. Shipping weight 3 lbs. Each.....19c  
481 HB 6771—Extra Heavy. 2-inch size. Shipping weight 4 lbs. 8 oz. Each.....22c  
481 HB 6770—Standard. 4-inch size. Shipping weight 8 lbs. Each.....33c  
481 HB 6771—Extra Heavy. 4-inch size. Ship. wt. 11 lbs. Each.....46c



Quarter Bends

481 HB 6764—Standard. 2-inch size. Shipping weight 4 lbs. Each.....22c  
481 HB 6765—Extra Heavy. 2-inch size. Shipping weight 7 lbs. Each.....30c  
481 HB 6764—Standard. 4-inch size. Shipping weight 12 lbs. Each.....43c  
481 HB 6765—Extra Heavy. 4-inch size. Ship. wt. 15 lbs. Ea. 52c

Combination  
"Y" and  
Eighth Bend



481 HB 6776—Standard weight 4-inch size. Shipping weight 21 pounds. Each.....92c  
481 HB 6777—Extra heavy weight 4-inch size. Shipping weight 27 pounds. Each.....\$1.17



Sanitary  
"T" Branch

481 HB 6774  
Standard. State size.  
Size, In. Ship. Wt. Each  
2 by 2 7 lbs. 30c  
4 by 2 12 lbs. 46c  
4 by 4 14 lbs. 63c



Sanitary  
Tee

4-inch with 2-inch side inlet. Shipping weights: 20 and 27 pounds. Picture shows R. H. Inlet.  
481 HB 6766—Standard. R. H. inlet.....\$1.17  
481 HB 6767—Extra heavy R. H. inlet.....\$1.30  
481 HB 6768—Standard. L. H. inlet.....\$1.17  
481 HB 6769—Extra heavy L. H. inlet.....\$1.30

45 Degree  
"Y" Branch



481 HB 6792  
Standard. State size.  
Size, In. Ship. Wt. Each  
2 by 2 7 lbs. 30c  
4 by 2 12 lbs. 46c  
4 by 4 16 lbs. 70c  
481 HB 6793—Extra Heavy. State size.  
2 by 2 9 lbs. 41c  
4 by 2 15 lbs. 67c  
4 by 4 20 lbs. 85c



Tapped  
Sanitary  
"T" Branch

Tapped for iron pipe. State size.  
481 HB 6798—Standard.  
Size, In. Ship. Wt. Each  
2 by 1 1/2 5 lbs. 35c  
4 by 1 1/2 7 lbs. 55c  
4 by 2 7 lbs. 55c

Plain Long Increases

For top of soil pipe stack where it goes through roof. Prevents frost from closing opening. Extra Heavy Weight. Wts. 19, 34 lbs. 481 HB 6853—Increases from 2 to 4 in. Length 24 in. Each.....85c  
481 HB 6855—Increases from 4 to 5 in. Length 30 in. Each.....\$1.25

Floor Drain



Ship. wts. 5, 8, 12 lbs.  
81 HB 6738—State size. 6 by 6 in. for 2-in. soil pipe. Each.....39c  
9 by 9 in. for 3-in. soil pipe. Each.....65c  
12 by 12 in. for 4-inch soil pipe. Each.....95c

Hanger Iron



Supports pipe lines. 18-gauge 3/8-in. wide up to 10 ft. 10 ft. 1 lb. 81 HB 7908—Per foot.....2c

Cleanout Ferrule



Same as above at right only extra heavy weight. Iron body, clean threaded brass plug. Wts. 3 and 5 lbs. State size. 81 HB 6842—2-in. Length 4-in. Each.....95c

## CAST IRON DRAINAGE FITTINGS

90° Drainage  
Elbow



Shipping weights 1 lb. 8 oz., 2 and 3 pounds. State size.

Pipe Size	81 HB 5652—Black Each	81 HB 5653—Galvanized Each
1 1/4	18c	20c
1 1/2	23c	25c
2	35c	38c

Long Turn  
90° Elbow



Shipping weights 1 lb. 12 oz., 2 lbs. 8 oz. and 3 lbs. 8 oz. State size.  
Size, inches. . . . 1 1/4 1 1/2 2  
81 HB 5666—Black..... 23c 27c 41c  
81 HB 5667—Galvanized..... 24c 29c 45c

90° Long Turn  
"Y" Branch



Shipping weights 2 lbs. 12 oz., 3 lbs. 8 oz. and 6 lbs. State size.  
Size, inches. . . . 1 1/4 1 1/2 2  
81 HB 5656—Black..... 35c 43c 63c  
81 HB 5657—Galvanized..... 39c 47c 75c

45° Drainage  
Elbow



Shipping weights 1 lb. 4 oz., 1 lb. 8 oz. and 2 lbs. State size.

Pipe Size	81 HB 5650—Black Each	81 HB 5651—Galvanized Each
1 1/4	18c	20c
1 1/2	23c	25c
2	35c	38c

45° Drainage  
Street Elbow



Shipping weights 1, 2 and 3 pounds. State size.  
Size, inches. . . . 1 1/4 1 1/2 2  
81 HB 5668—Black..... 23c 25c 38c  
81 HB 5669—Galvanized..... 24c 28c 43c

45° Drainage  
"Y" Branch



Shipping weights 2 lbs. 12 oz., 3 lbs. 8 oz. and 5 pounds. State size.  
Size, inches. . . . 1 1/4 1 1/2 2  
81 HB 5654—Black..... 32c 40c 58c  
81 HB 5655—Galvanized..... 34c 44c 63c

Drainage  
"T" Branch



Shipping weights 4, 5 and 7 lbs. Not Prepaid. State size.

81 HB 5658—Black. Size..... 1 1/4 inch 1 1/2 inch 2 inch Each..... 28c 35c 52c  
81 HB 5659—Galvanized. Size..... 1 1/4 inch 1 1/2 inch 2 inch Each..... 30c 39c 58c

Reduces one size at side opening. 81 HB 5660—Black. Size..... 1 1/4 inch 1 1/2 inch 2 inch Each..... 39c 58c 85c  
81 HB 5661—Galvanized. Size..... 1 1/4 inch 1 1/2 inch 2 inch Each..... 42c 63c

Hub Top  
Sanitary "T"



Branch and end for threaded pipe. Hub for caulking. Ship. wt. 4 lbs. Size 1 1/2 inch. Not Prepaid.  
81 HB 5664—Black..... 40c  
81 HB 5665—Galvanized..... 50c

Drainage  
"P" Trap



Ship. wts. 6, 8 lbs. Not Prepaid. State size.  
81 HB 5670—Black. 1 1/2-inch size. Each..... 69c  
2 -inch size. Each..... 90c  
81 HB 5671—Galvanized. 1 1/2-inch size. Each..... 90c  
2 -inch size. Each..... \$1.20

Galvanized  
Long  
Screw



Seamless. Lock nut faced. Shipping wts. 2 lbs. 8 oz. and 3 lbs. Not Prepaid. State size.  
81 HB 5662  
Pipe Size In. Lgth. Inches Each  
1 1/4 3 65c  
1 1/2 5 80c

## CAST IRON STEAM FITTINGS

Straight and Reducing Tees

When ordering state largest opening first. Largest opening governs price. Reduces one size only at branch or one end opening. Size given is large end. State size. Ship. wts., each, 1 to 14 lbs.

Pipe Size	Straight Sizes 81 HB 4906—Black		Reducing Sizes 81 HB 4912—Black		Pipe Size	Straight Sizes 81 HB 4906—Black		Reducing Sizes 81 HB 4912—Black	
	Each	6 for	Each	6 for		Each	6 for	Each	6 for
3/4	11c	55c	12c	60c	2	36c	\$1.80	42c	\$2.10
1	13c	65c	15c	75c	2 1/2	65c	3.25	73c	3.65
1 1/4	20c	\$1.00	24c	\$1.20	3	97c	4.85	\$1.11	5.55
1 1/2	26c	1.30	29c	1.45	4	\$1.55	7.75	1.77	8.85

Straight and Reducing Elbows

When ordering state largest opening first. Largest opening governs price. Reduces one size only. Sizes given are largest end. Shipping weight, each, 1 to 10 pounds. State size.

Pipe Size	90° Elbows Straight Sizes 81 HB 4900—Black		90° Elbows Reducing Sizes 81 HB 4902—Black		Pipe Size	90° Elbows Straight Sizes 81 HB 4900—Black		90° Elbows Reducing Sizes 81 HB 4902—Black	
	Each	6 for	Each	6 for		Each	6 for	Each	6 for
3/4	7c	35c	8c	40c	2	25c	\$1.25	28c	\$1.40
1	9c	45c	11c	55c	2 1/2	44c	2.20	53c	2.65
1 1/4	14c	70c	16c	80c	3	66c	3.30	75c	3.75
1 1/2	18c	90c	20c	\$1.00	4	\$1.06	5.30	\$1.24	6.20

Flange Unions With Gasket

81 HB 4908—Wts., each 2 lbs. 8 oz. to 16 lbs.  
Pipe size. . . . 3/4 1 1/4 1 1/2 2 2 1/2 3 4  
in. . . . 49c 61c 74c 95c \$1.19 \$1.42 \$1.99  
Each..... \$2.20 \$2.45 \$3.05 \$3.70 \$4.75 5.95 7.10 9.95  
6 for..... \$2.20 \$2.45 \$3.05 \$3.70 \$4.75 5.95 7.10 9.95

45 Degree  
Elbow



To run pipe on angle. Ship. wts., each 1 to 10 lbs.

Cast Iron Plugs—Black or Galvanized

Pipe Size In.	81 HB 5388—Black		81 HB 5389—Galvanized		Pipe Size In.	81 HB 5388—Black		81 HB 5389—Galvanized	
	Each	6 for	Each	6 for		Each	6 for	Each	6 for
1/4	2c	10c	3c	15c	1 1/2	5c	25c	9c	45c
1/2	2c	10c	3c	15c	2	7c	35c	12c	60c
3/4	2c	10c	3c	15c	2 1/2	12c	60c	22c	\$1.10
1	2c	10c	4c	20c	3	17c	85c	31c	1.55
1 1/4	3c	15c	5c	25c	4	29c	\$1.45	51c	2.55

81 HB 4904  
State size

Pipe Size	Each	6 for
3/4	9c	45c
1	11c	55c
1 1/4	17c	85c
1 1/2	21c	\$1.05
2	30c	1.50
2 1/2	53c	2.65
3	80c	4.00
4	\$1.28	6.40





# BRASS PIPE

- It Cannot Rust—Everlasting
- Tested to 2500 Lbs. Pressure
- Full Iron Pipe Sizes
- Standard Weight and Gauge

When you build a home—*build for permanence!*  
When you make a repair—*repair for the last time.*  
Use Brass Pipe—it cannot rust!

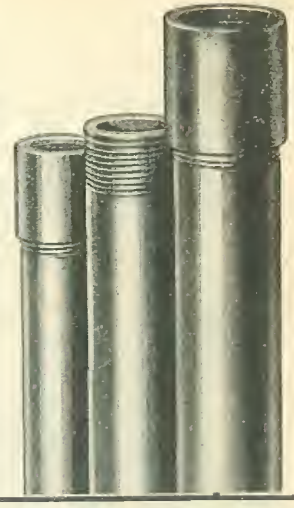
The U. S. Government *specifies* Brass Pipe and Fittings for all its buildings. These buildings are built to last *scores of years*. One repair job can easily cost more than the difference in cost between Brass Pipe and other kinds. In addition, you are assured of a permanent supply of clean, pure water. Freedom from rust is freedom from care and worry! Brass Pipe is more than *four times* as strong as steel pipe—it is seamless and practically burst-proof, even under extreme conditions.

181 HB 5510— $\frac{1}{2}$ -inch. Per foot..... 18 $\frac{1}{2}$ c  
181 HB 5510— $\frac{3}{4}$ -inch. Per foot..... 23c

Wards Brass Pipe is drawn to uniform thickness, each and every piece is standard gauge and weight. It's Full Iron Pipe Size—will connect right into your present iron fittings for repair work. However, it is best to use brass fittings with Brass Pipe. This will insure a permanent installation.

All Prices subject to market changes. *State size.*  
Low Freight Rates listed under Brass Pipe on Page 2. Furnished in 12-ft. lengths—unthreaded. Each threaded end 5c extra. Ship. wts., 15 oz. and 1 lb. 4 oz. per ft. *Prices Subject to Market Change.*

**18 $\frac{1}{2}$ c**  
A Foot



## BRASS FITTINGS



**Elbows**

Ship. wts., 5 and 7 oz. each. *State size.*

### 90° Elbows

81 HB 5511—  
 $\frac{1}{2}$ -inch..... 9c  
 $\frac{3}{4}$ -inch..... 13c

### 45° Elbows

81 HB 5512—  
 $\frac{1}{2}$ -inch..... 10c  
 $\frac{3}{4}$ -inch..... 13c



**Couplings**

Rough cast brass. Ship. wts. 4 and 6 ounces each. *State pipe size wanted.*

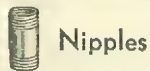
81 HB 5514—  
 $\frac{1}{2}$ -inch..... 8c  
 $\frac{3}{4}$ -inch..... 12c



**Tees**

Each opening is same size. Shipping weights 7 and 9 ounces each. *State size.*

81 HB 5515—  
 $\frac{1}{2}$ -inch..... 13c  
 $\frac{3}{4}$ -inch..... 18c



**Nipples**

Ship. wts. 4 to 11 oz. each. Lengths  $2\frac{1}{2}$ -,  $3\frac{1}{2}$ -,  $4\frac{1}{2}$ -,  $5\frac{1}{2}$ -,  $6\frac{1}{2}$ -inch, length.

### Long Nipples

81 HB 5517—  
 $\frac{1}{2}$ -inch..... 9c  
 $\frac{3}{4}$ -inch..... 12c

### Short Nipples

81 HB 5516—  
 $\frac{1}{2}$ -inch..... 5c  
 $\frac{3}{4}$ -inch..... 6c



**Unions**

Rough cast brass. Ship. wts. 10 oz. and 1 lb. each. *State pipe size wanted.*

81 HB 5513—  
 $\frac{1}{2}$ -inch..... 25c  
 $\frac{3}{4}$ -inch..... 35c



**Reducing Tees**

Reduces one size. Ship. wts. 7 and 9 oz. each. *State size and opening to be reduced.*

81 HB 5518—  
 $\frac{1}{2}$ -inch..... 16c  
 $\frac{3}{4}$ -inch..... 23c

## BRASS VALVES—Quick Service at Ward's



**Brass Angle and Globe Valves**

Cast brass body with quick tightening seats. 125 lbs. working pressure.

### Angle Valves

Ground brass disc and seat. *State size.*

Pipe Size	Ship. Wt.	Each	6 for
$\frac{1}{4}$ in.	8 oz.	33c	\$1.65
$\frac{1}{2}$ in.	8 oz.	34c	1.70
$\frac{3}{4}$ in.	12 oz.	36c	1.80
$1\frac{1}{4}$ in.	1 lb.	42c	2.10
$1\frac{1}{2}$ in.	1 lb. 8 oz.	48c	2.40
2 in.	2 lbs.	81c	4.05
$2\frac{1}{2}$ in.	3 lbs.	\$1.15	5.75
4 in.	4 lbs. 8 oz.	1.39	6.95
6 in.	8 lbs.	2.25	11.25

### Globe Valves

With ground brass disc and seats. *State size.*

Pipe Size	Ship. Wt.	Each	6 for
$\frac{1}{4}$ in.	8 oz.	33c	\$1.65
$\frac{1}{2}$ in.	8 oz.	34c	1.70
$\frac{3}{4}$ in.	12 oz.	36c	1.80
$1\frac{1}{4}$ in.	1 lb.	42c	2.10
$1\frac{1}{2}$ in.	1 lb. 8 oz.	48c	2.40
2 in.	2 lbs.	81c	4.05
$2\frac{1}{2}$ in.	3 lbs.	\$1.15	5.75
4 in.	4 lbs. 8 oz.	1.39	6.95
6 in.	8 lbs.	2.25	11.25

### J. D. Type Angle and Globe Valves

Renewable composition disc. For pressure up to 125 pounds steam, 150 pounds of water. Shipping weights 8 ounces to 8 pounds. *State size wanted.*

### Angle Valves

Pipe Size	81 HB 5403
$\frac{1}{4}$ in.	38c
$\frac{1}{2}$ in.	40c
$\frac{3}{4}$ in.	47c
1 in.	53c
1 in.	90c
$1\frac{1}{4}$ in.	\$1.25
$1\frac{1}{2}$ in.	1.55
2 in.	2.35

### Globe Valves

Pipe Size	81 HB 5401
$\frac{1}{4}$ in.	38c
$\frac{1}{2}$ in.	40c
$\frac{3}{4}$ in.	47c
1 in.	53c
1 in.	90c
$1\frac{1}{4}$ in.	\$1.25
$1\frac{1}{2}$ in.	1.55
2 in.	2.35



**Brass Gate Valves**

Full pipe opening. Tested for 125 lbs. working pressure. Ship. wt. 1 lb. 8 oz. to 7 lbs.

### 81 HB 5406—State size.

Pipe Size	Each	6 for
$\frac{1}{2}$ in.	55c	\$2.75
$\frac{3}{4}$ in.	75c	3.75
1 in.	\$1.05	5.25
$1\frac{1}{4}$ in.	1.85	9.25
$1\frac{1}{2}$ in.	2.70	13.50



**Swinging Check Valves**

Swing check. Ship. wts. 12 oz. to 6 lbs.

### 81 HB 5410—State size.

Pipe Size	Each	6 for
$\frac{1}{4}$ in.	85c	\$4.25
$\frac{1}{2}$ in.	95c	4.75
$\frac{3}{4}$ in.	\$1.05	5.25
1 in.	1.30	6.50

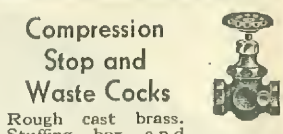


**Sill Faucet**

Rough nickel plated brass. Standard hose connection. Wheel key handle. Ship. wt. 1 lb. 8 oz.

### 81 HB 5419—State size.

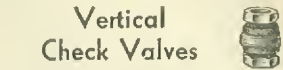
Pipe Size	Each	6 for
$\frac{1}{2}$ in.	52c	\$3.12
$\frac{3}{4}$ in.	53c	3.18
1 in.	\$2.60	15.60



**Compression Stop and Waste Cocks**

Rough cast brass. Stuffing box and thumb screw waste opening. Shipping weight 1 lb. 4 oz. and 1 lb. 8 oz.

81 HB 5429—*State size wanted.*  
Size. Ship. wt. 1 lb. 4 oz. 45c  
Each..... 53c  
6 for..... \$2.25 \$2.65

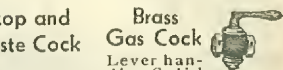


**Vertical Check Valves**

Cast brass, rough finish.

### 81 HB 5413—State size.

Pipe Size	Ship. Wt.	Each	6 for
$\frac{3}{4}$ in.	8 oz.	55c	\$2.75
$\frac{1}{2}$ in.	12 oz.	60c	3.00
$\frac{1}{4}$ in.	1 lb.	77c	3.85
1 in.	1 lb. 4 oz.	\$1.10	5.50

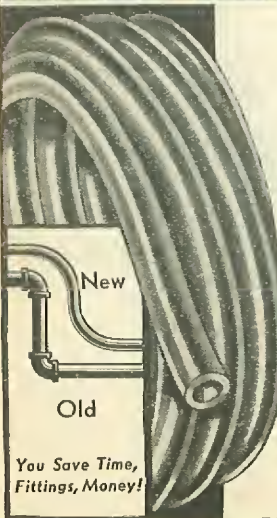


**Brass Gas Cock**

Lever handle. Solid brass. Tapped for iron pipe connections. Ship. wt. 1 lb. 1 lb. 4 oz. 81 HB 5424—*State size.*

Pipe Size	Each	6 for
$\frac{1}{2}$ in.	55c	\$3.30
$\frac{3}{4}$ in.	55c	3.30
1 in.	55c	3.30
1 in.	55c	3.30
1 in.	55c	3.30
1 in.	55c	3.30

## COPPER TUBING and ACCESSORIES



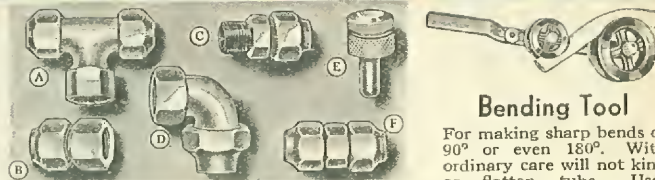
**8 $\frac{3}{4}$ c**  
Per Foot

- Rust and Corrosion-Proof
- Freeze-Proof—Heat-Proof
- Tested to 2000 Lbs. Pressure
- Best and Quickest for Repairs and Replacements

Made of 99.9% Pure Copper—so permanently resistant to the elements that the only way you can put it out of service is to remove it! Rust—corrosion—freezing—intense heat—all have no effect on it. *Annealed*—it expands 3 to 5 times with freezing water and can be bent easily.

You can run it around corners, between walls and under floors in one continuous piece. This means speed in new buildings—and a big saving on the cost of cutting through walls and floors in repair jobs. No thread cutting is necessary—uses compression fittings like the gasoline line in an auto. Furnished in lengths up to 60 ft. Order Standard Weight for interior use—Extra Heavy for underground use. *Prices subject to market changes. State size.*

	Price per Foot	Price per 60-ft. Coil
581 HB 5550—Standard Weight.		
$\frac{1}{2}$ -in. inside diam. Ship. wt. per ft. 6 oz.....	83c	\$4.70
$\frac{3}{4}$ -in. inside diam. Ship. wt. per ft. 9 oz.....	123c	6.90
1-in. inside diam. Ship. Wt. per ft. 11 oz.....	183c	10.90
581 HB 5570—Extra Heavy.		
$\frac{1}{2}$ -in. inside diam. Ship. wt. per ft. 7 oz.....	104c	5.45
$\frac{3}{4}$ -in. inside diam. Ship. wt. per ft. 12 oz.....	174c	9.30
1-in. inside diam. Ship. wt. 15 oz.....	23c	12.45



**Bending Tool**

No finer Compression Fittings made for copper tubing. Special brass alloy, with a high copper content, highly resistant to corrosion. Flanging tool makes connection simple. Withstand a pull of nearly 3000 pounds. Order same size as tubing you wish to fit. *State size.* Ship. wts. range from 8 oz. to 1 lb.

	81 HB 5556—Tee. Copper to iron...	81 HB 5557—Tee. Copper to copper...	81 HB 5560—Female Adapter. Connects iron pipe to copper tubing...	81 HB 5552—Male Adapter. Connects copper tubing to iron pipe...	81 HB 5554—90° Elbow. Copper to iron...	81 HB 5555—90° Elbow. Copper to copper...	81 HB 5558—Flanging Tool...	81 HB 5551—Union. Copper to copper...
(A)	50c	50c	27c	25c	37c	37c	38c	35c
(B)	50c	50c	38c	35c	49c	49c	47c	49c
(C)								
(D)								
(E)								
(F)								



# Upstairs . . . downstairs . . . ALL THE WATER YOU

"I saved \$35 on my pump alone," says F. A. Berther of Port Arthur, Texas. Thirty-five dollars—because the best price quoted to Mr. Berther on a pump to compare with Wards Little Giant was \$95.

But such cash saving is only a part of the economy of buying at Wards. On thousands of farms, suburban homes, stores, filling stations beyond the range of city water mains, Wards water systems are saving money on operation, just as they did on first cost, because of the extra dependable service they give.

Why? Because Wards never, if possible, lets a man buy the wrong kind of pump for his job. This is an extra service Wards customers may have from Wards Engineering Service Department *without extra charge*.

## FREE Estimates—FREE Instructions

Here is how Wards Engineers help you when you are ready to buy your water system!

First, You may call upon them for advice as to what kind of pump will be best for your job.

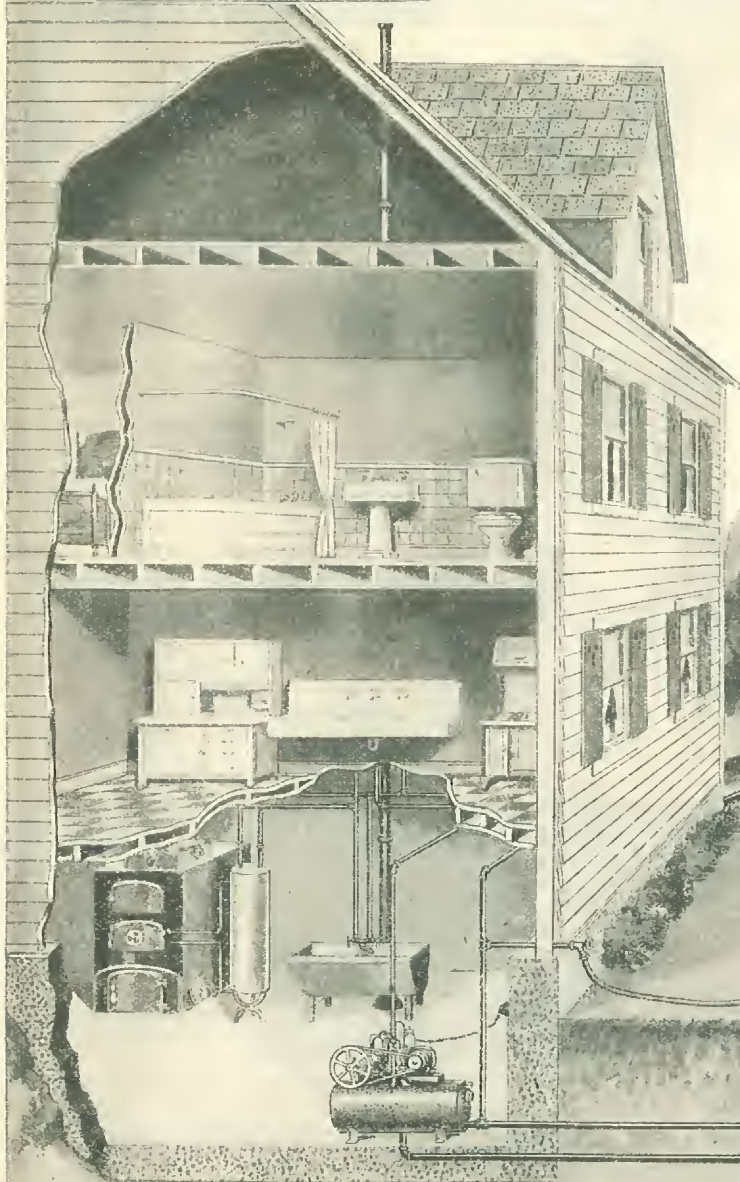
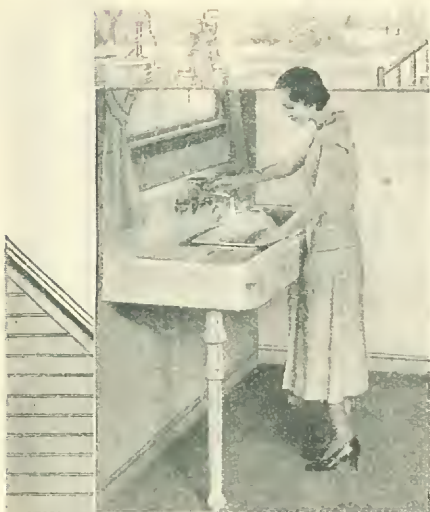
Second, You may ask them for any other advice or assistance you may think will help you to secure a good installation.

Third, You may have, without cost or obligation, a complete estimate of the cost of all materials—delivered.

Fourth, You may have complete instructions for installing the system yourself; blue prints where needed, diagrams, instructions—everything you require to do the job right.

## How to Secure These Services

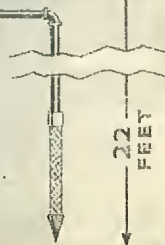
The recommendations of Wards Engineering Service are based on a complete picture of your problems. With this catalog we send our Water System Information Form, No. 16274. When you have filled out this blank, you have given our engi-



A typical installation of Ward's Little Giant Shallow Well Outfit. It supplies running water to your basement, kitchen and bathroom. It also serves a stock tank in the barnyard and drinking cups at the cow stalls. The pump is electrically operated and entirely automatic.

The septic tank provides every advantage of modern city sewage disposal. Disposes of household waste through the natural process of bacterial action. No chemicals required. No upkeep. Easily installed. Read about Ward's Windsor Septic Tank shown elsewhere in this Book.

The shallow driven well. Very common type. Well point is driven down to water bed. Point is equipped with a screen which keeps sand and grit out of suction pipe. A complete line of Pumps and Well Supplies is shown on the following pages.





# in the yard...in the barn

## CAN USE AT A FEW CENTS A DAY

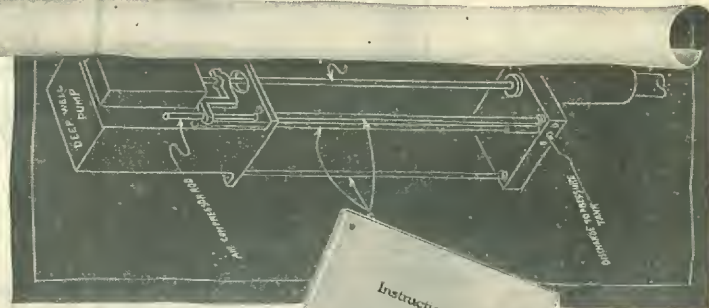
neers all the information they require to render you practical help in planning your system.

This form gives you valuable information about all types of pumps, showing typical installations for electric, windmill or engine power. It covers all kinds of wells, both deep and shallow, and other sources such as lakes, streams or springs.

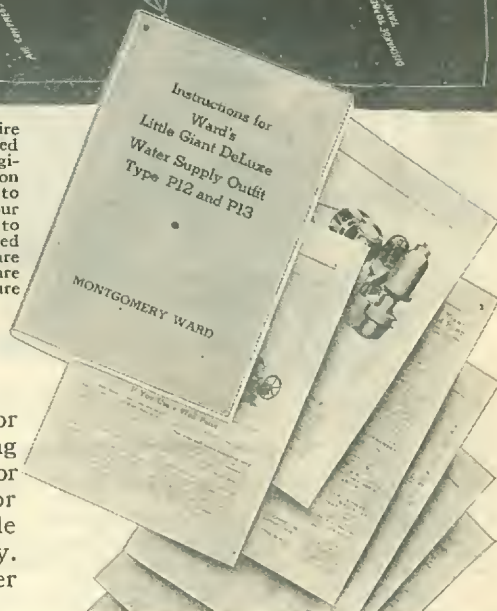
The size and type of water system you select will depend upon amount of water required, kind of well, depth water must be pumped and kind of power you will use.

Wards Engineers consider carefully all these conditions in relation to your own installation and the advice they give you is sound and practical. It will give you an excellent installation, economical in first cost, economical to maintain, and destined for long years of perfect performance.

Fill out the blank fully, giving complete answers to every question that concerns your installation. Before you order, Wards engineers will give you a complete estimate of the cost—delivered—of all materials you will require.

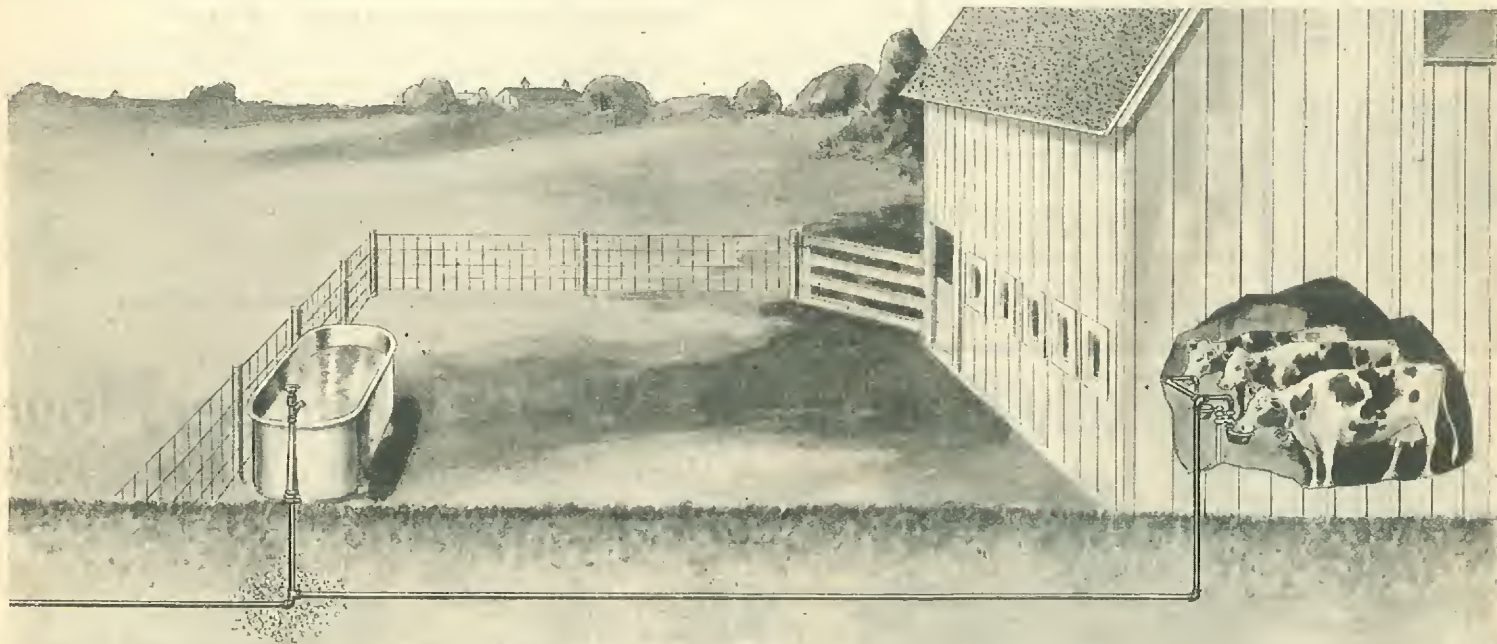


Blue prints of your entire installation are prepared for you by skilled engineers. These instruction sheets tell exactly how to install each unit of your water system according to latest, most approved plumbing practice and are furnished when they are required in order to insure a perfect installation.



### Save Money on Installation

With your order we will send, if their use is necessary, complete instructions for installation, including blue prints, and instruction sheets picturing and diagraming the installation of each unit. We will also show you how to hook up the power or plumbing you may install at the same time. These instructions are designed for the man of limited experience. They are simple and practical, and will enable almost anyone to make the entire installation without a moment's difficulty. There is no charge for this extra service. Use it freely. It will mean a better water system, better installed, and at a real saving of time and money.

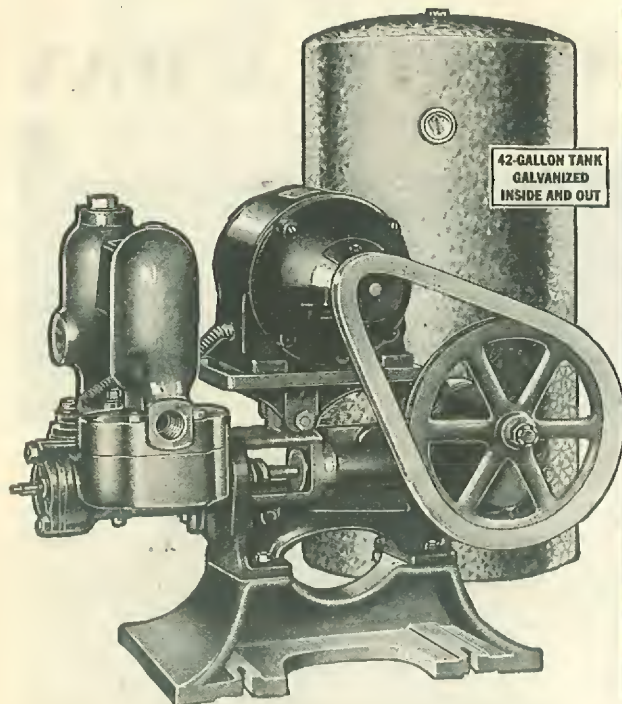


An outside anti-freeze hydrant supplies water to the stock tank. A brass shut-off valve at the service pipe below is controlled by a hand wheel at the top of the hydrant. When valve is closed, the water drains out below frost line.

Drinking cups at the cow stalls are a sure source of profit. It is universally agreed that cows increase their productive capacity when water is easily accessible at all times. See our general Catalog for Dairy Supplies and Stock Tanks.



# AUTOMATIC SHALLOW WELL



42-GALLON TANK  
GALVANIZED  
INSIDE AND OUT

**No Quieter—Smoother Running  
System at Any Price?**

**Wards NEW LITTLE GIANT De Luxe**

450-Gal. Size  
**\$73<sup>45</sup>**  
Cash Price

450-Gal. Size  
**\$71<sup>45</sup>**  
Cash Price

As Low As  
**\$7 down**  
And **\$7 MONTHLY**

With Belt Guard

Without Belt Guard

SEE PAGE 3

**Pump 450 and 600 Gallons Per Hour**

**NEW! IMPROVED!** We've completely redesigned old systems—added every worthwhile new feature . . . extra large air chamber—larger and more direct waterways—smooth, quiet stroke. We've put the sturdy new motor and pump on separate heavy mountings to make one of the most noiseless, vibrationless, longest lasting Systems possible. Upright tank has capacity of 42 gallons—plenty of water for every use, bath-room, kitchen and basement—for sprinkling, watering stock and fire protection. Compact—requires a floor space only 16 by 27 inches.

**Wards Little Giant Has Every Worthwhile Mechanical Feature**

- Sturdy, powerful  $\frac{1}{3}$  and  $\frac{1}{2}$ -H. P. Repulsion-Induction Motors.
- 42-Gallon Tank gives unusual storage capacity—not necessary to run pump so often—a big saving on current.
- Reciprocating Action Piston Pump operates on a smooth even stroke at low speed—no noise . . . no vibration.
- Built-In Strainer on suction line keeps out grit, etc.
- Special Outlet gives fresh drinking water direct from well.
- Air Volume Control keeps tank from becoming water logged.
- Brass Lined Cylinder . . . Timken Roller Bearings.
- Extra Large Vacuum and Pressure Air Chambers and direct waterways eliminate pulsation and water knocks.

Has automatic two-pole switch that stops and starts the motor . . . thermal cutout switch that automatically protects motor from overload . . . self-priming vacuum chamber . . . strong V-shaped rubber belt . . . splash lubrication . . . foot and relief valve . . . bronze connecting rod . . . stainless steel piston rod . . . rubber faced brass valves . . . wing guided . . . valves and piston easily accessible . . . pressure gauge and air volume control on tank.

Maintains normal pressure at a fraction of capacity power, leaving plenty in reserve for emergencies. Heavy cast iron housings and stand are finished in red . . . the motor is adjustable to take up slack in the belt. The only attention it needs is an occasional oiling.

## READ INFORMATION IN PANEL AT LEFT

Constant pressure in tank, between 20 and 40 lbs., forces water into house at ordinary city pressure. Write to Wards Engineering Service Department (see Page 4) if you require a system to maintain higher tank pressure. Sold on Monthly Payments, see Page 3.

450-gallon outfit has  $\frac{1}{2}$ -H.P. motor; 600-gallon outfit has  $\frac{1}{2}$ -H.P. motor. Operates on 110 or 220-volt, 60-cycle A.C. Tank is 48 inches high, 16 inches in diameter. Overall height of pump 22 inches. Suction intake for  $\frac{1}{4}$ -in. pipe. Discharge outlet for 1-in. on both sizes. Easy to install—complete instructions furnished. Shipped from Stock in Baltimore, Md. or Albany, N. Y.

181 HB 3439—450-Gallon Outfit—Complete with Tank and Fittings to Install.

Cash Price: Ship. wt. 320 lbs. . . . . \$71.45

Budget Plan Price: Only \$7 Down and \$7 a Month . . . . . 78.95

181 HB 3444—600-Gallon Outfit—Complete with Tank and Fittings to Install.

Cash Price: Ship. wt. 340 lbs. . . . . \$81.95

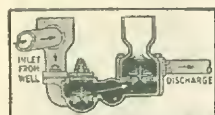
Budget Plan Price: Only \$8 Down and \$8 a Month . . . . . 90.45

If Belt Guard Is Wanted, add \$2. Either Pump can be furnished with 25-cycle or 50-cycle Motor at \$5.00 extra.

## Little Giant Pump Only Without Tank or Fittings

181 HB 3460—450-Gallon Size. Ship. wt. 200 lbs. Cash Price . . . . . \$57.45

181 HB 3461—600-Gallon Size. Ship. wt. 215 lbs. Cash Price . . . . . 67.45



**DIRECT WATERWAYS**  
NEW! Large straight water channels assure a rapid free water flow—eliminates pounding, vibration, noise and wear. Insures smooth operation—long service.



**FIRE PROTECTION**  
Large volume for fire protection—supplies  $\frac{3}{4}$ -inch hose nozzle "wide open" with strong steady stream. Plenty of water for all purposes—stock watering, etc.

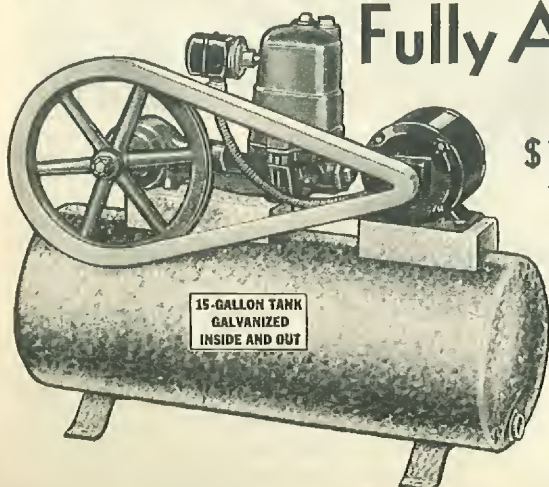
## For Wells 22 Ft. Deep or Less

All Systems on this page pump from wells, lakes, streams, etc., where water level is not more than 22 feet below pump. They draw water horizontally over 100 feet at 22-foot water level and 200 feet at 20-foot water level.

Pressure in Tank Forces Water into House—at about Average City Pressure. A pressure of about 35 pounds will raise water 80 feet.

**Write Wards Engineering Service Department**

If there are any questions that are puzzling you our experts will solve your difficulties. Free of Charge.



15-GALLON TANK  
GALVANIZED  
INSIDE AND OUT

# Fully Automatic—250 Gallons per Hour A Dependable System at a Moderate Price

**\$38<sup>95</sup>**  
Cash Price

Without  
Belt Guard

**\$40<sup>95</sup>**  
Cash Price

With  
Belt Guard

**\$4 DOWN**

A completely satisfactory, sturdily built Home Water System, at a price that saves you money.  $\frac{1}{4}$ -H.P. Condenser type Motor. High grade Reciprocating Action Pump which is unusual at this price. Cast Iron Housings finished blue. 15-gallon Tank heavily galvanized inside and out.

## CHECK THESE QUALITY FEATURES

- Brass lined cylinder—suction and discharge valves are easily accessible.
- Stainless steel piston rods.
- Strainers in suction chamber keep out grit—prevent scoring of the cylinders.
- Rubber faced brass valves . . . Splash lubrication. Bronze Bearings.
- V-shaped belt—relief and foot valve.

## COMPLETELY AUTOMATIC

Starts when pressure drops to 20 lbs.—stops automatically when pressure reaches 40 lbs. Pressure in tank forces water into house at city pressure.

Simple to install and operate—complete instructions included. Size of outfit is 35 by 14 by 28 inches high. Suction and discharge opening for  $\frac{3}{4}$ -inch pipe. Shipped from Stock in Baltimore, Md. or Albany, N. Y. Low Freight Rates on Page 2. Ship. wt. 146 lbs.

181 HB 3408—Wards Complete Water System for 110 to 120-Volt, 60-Cycle A.C.

Cash Price . . . . . \$38.95. BUDGET PLAN Price: Only \$4 Down and \$5 a Month . . . \$42.95

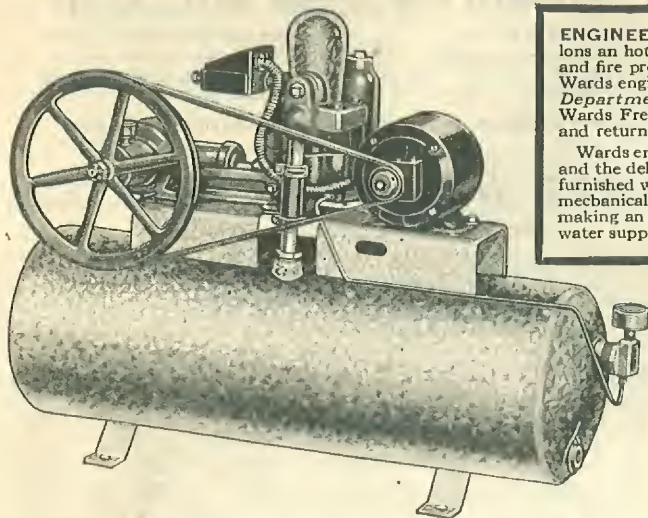
181 HB 3409—Wards Complete Water System for 32-Volt D.C. Farm Current.

Cash Price . . . . . \$39.95. BUDGET PLAN Price: Only \$4 Down and \$5 a Month . . . \$43.95

If Belt Guard is wanted, state on order and add \$2. Can be furnished with either 25-cycle or 50-cycle motors at \$5 extra.

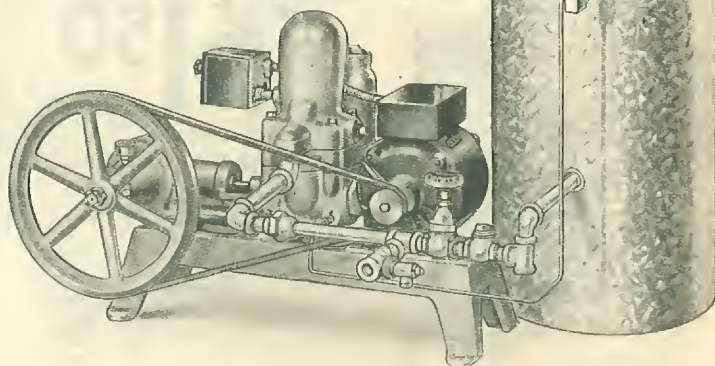


# PUMPS Cost Less at Wards



**ENGINEERING SERVICE**—A water system with a capacity of 225 to 250 gallons an hour will supply average household needs. For sprinkling, watering stock and fire protection a larger capacity is required. If in doubt as to your needs, let Wards engineers give you free advice. Write to **Wards Engineering Service Department** and ask for **Free Estimate Blank No. 16274**. When you get Wards Free Estimate Blank, all you need to do is answer the simple questions, and return the blank.

Wards engineers can then give you the answers to any questions you have asked and the delivered cost of the water system. Complete installation instructions are furnished when you order from Wards. With the aid of these instructions any man mechanically inclined can install a water system easily. If you are considering making an installation of plumbing or other related equipment in addition to the water supply system, we will be glad to furnish a free estimate on the complete job.



## Pumps 250 Gallons per Hour

- Tank—18-gallon, heavily galvanized inside and out
- Motor— $\frac{1}{4}$ -H.P., economical in power consumption
- Pump—Reciprocating action—245 strokes per minute—galvanized inside and out to prevent rusting

**\$45<sup>75</sup>**  
CASH PRICE

A leader in its field! This Water System has all the extra quality features of Wards finest Water System, at the left, except that the motor and pump are lighter weight and mounted directly on the 18-gallon galvanized tank. Its capacity of 250 gallons per hour is sufficient for all ordinary household requirements of the average size family.

Without Belt Guard

$\frac{1}{4}$ -H.P. condenser-type motor is practically silent running. Two-pole switch automatically starts and stops motor. Cutout switch protects it from overloading. Air volume control keeps tank from being water logged. Gauge shows pressure in tank. Reciprocating action piston, operating with a smooth, quiet even stroke, forces water into the house at about city pressure. Brass-lined cylinder for long trouble-free service. Timken Roller Bearings and splash lubrication. Large vacuum and pressure air chamber prevents pulsation and water knocks. Will pump any distance within 100 feet from source of water, with a vertical lift up to 22 feet. Pump starts when pressure drops to 20 lbs.; stops when pressure reaches 40 lbs.

### Lifts Water From Wells 22 Feet Deep

Fresh water opening permits cool drinking water to be drawn directly from the well, and the built-in strainer keeps out grit, preventing the cylinder from being scored. The self-priming suction chamber keeps the pump primed at all times. Suction and discharge valves and piston are easily accessible for inspection. There are two connections for  $\frac{3}{4}$ -in. pipe and fresh water valve connection for  $\frac{1}{2}$ -in. pipe. Size 40 by 14 by 29 in. high. Easily installed with complete instructions included. Shipped from Stock in Baltimore, Md. or Albany, N. Y. Ship. wt. either type, 180 lbs. See Page 2 for Freight Rates. Wards Engineering Service Department will advise you—Free of Charge—as to which Water System is best adapted to your needs. Write for Free Estimate Form No. 16274, if you are in need of assistance. Protect yourself and family by using a belt guard. If belt guard is wanted specify in order and add \$2 to price below. Systems for 25 and 50-cycle motors can be furnished for \$5 extra. State kind of current to be used.

181 HB 3402—Complete Systems for 110 to 120-volt, 60-Cycle A.C.  
Cash Price.....\$45.75 Budget Plan Price: \$5 Down, \$5 a Month.....\$50.75  
181 HB 3403—Complete System for 32-Volt Farm Current.  
Cash Price.....\$46.75 Budget Plan Price: \$5 Down, \$5 a Month.....\$51.75

## Pumps 250 Gallons Per Hour DIRECT FROM WELL—USES NO TANK

A completely automatic direct from well Water System for the small home, beach cottage, etc. Just a dollar a day put aside for a month will give you all the conveniences that running water offers.

One-gallon iron pressure tank delivers water sparkling and cold direct from the well. Just a turn of any water faucet, and this sturdy little pump goes into action—giving you as much as 250 gallons an hour. Turn off the water and the pump automatically stops. No storage tank is required, but one may be used if desired.  $\frac{1}{4}$ -H.P. Condenser Type Motor starts and stops automatically; starts at 20 pounds pressure and stops at 40 pounds, which forces the water into the house at about average city pressure.

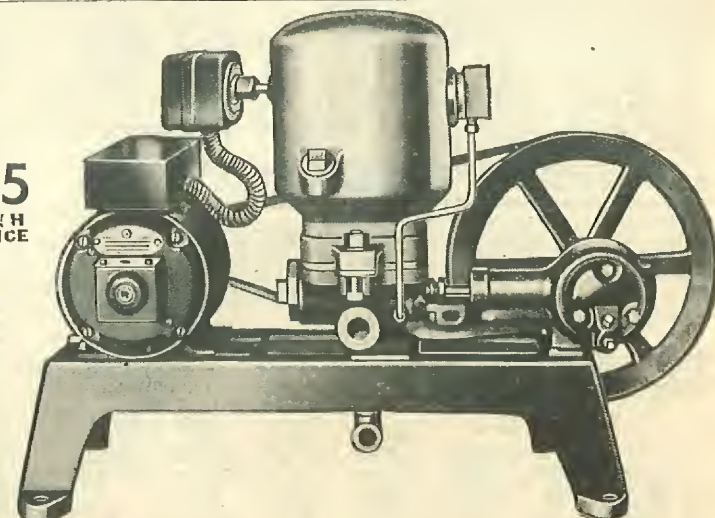
The double action pump has brass-lined cylinder. The bronze connecting rod and crank are lubricated by the splash system. Automatic air volume control prevents tank from becoming water-logged. Has foot and relief valves. Will draw any distance within 100 feet of the source with vertical lift of 22 feet. Delivers pressure stream anywhere in the house. Compact—requires space only 31 by 13 by 21 inches high. Has  $\frac{3}{4}$ -in. suction;  $\frac{1}{2}$ -in. discharge. For 110 or 120-volt, 60-cycle A.C. If belt guard is wanted, state in order and add \$1.50. Shipped from Stock in Baltimore or Albany. Ship. wt. 141 lbs. Freight Rates Page 2.

If you are in doubt as to the correct pump for your home, write Wards Engineering Service Department—ask for Free Estimate 16274.

181 HB 3470—Complete. Cash Price.....\$28.95  
Budget Plan Price: \$3 Down, \$5 a Month.....31.95

**\$28<sup>95</sup>**  
CASH PRICE

Without  
Belt Guard



## Pumps 350 Gallons per Hour

- Tank—42-gallon size, galvanized inside and out
- Motor— $\frac{1}{4}$ -H.P., very economical of power
- Pump—Reciprocating action—220 Strokes per minute—galvanized heavily inside and out

**\$55<sup>95</sup>**  
CASH PRICE

Without Belt Guard

It operates on the new low speed principle that eliminates wear and saves dollars on the parts YOU DO NOT HAVE TO BUY. The 42-gallon storage tank gives unusual capacity—the motor runs less frequently, and that means a big saving in current. Will pump any distance within 100 feet of water supply.

The heavily galvanized 42-gal. tank is mounted separately, permitting heavy solid mountings for motor and pump. Noise and vibration reduced to a minimum. Air volume control prevents tank from becoming water-logged. Tank is 48 in. high; diameter, 16 in.

The double action pump works in a brass-lined cylinder and has extra large water-ways. The Timken Roller Bearings and Splash Lubrication assure long, silent operation. The large Vacuum and Pressure Chambers prevent pounding and water knocks. A built-in strainer keeps out grit and dirt and prevents the cylinder from being scored. A fresh water opening gives cold, sparkling water direct from the well. Cast iron housings for added strength. Pump is 31 in. long; 13 in. wide and 21 in. high.

Two connections, suction 1-in., discharge for  $\frac{3}{4}$ -in. pipe. Instructions included. Shipped from Stock in Baltimore or Albany. For Freight Rates, see Page 2. For Wards Budget Plan of Convenient Monthly Payments, see Page 3. For Pumps with Belt Guard, state in order and add \$2. Pump furnished with 25-cycle or 50-cycle motor at \$5 extra.

Complete with Tank and Fittings as Pictured

Article No.	Type of Motor	Ship. Wt.	Cash Price	Budget Plan Price
181 HB 3406	110 or 120-Volt, 60-Cycle A.C.....	269 lbs.	\$55.95	\$61.45
181 HB 3407	32-Volt Farm Current.....	269 lbs.	56.95	62.45
Pump Only—Without Tank or Fittings				
181 HB 3465	110 or 120-Volt, 60-Cycle A.C.....	165 lbs.	\$46.45	\$51.45
181 HB 3466	32-Volt Farm Current.....	165 lbs.	47.45	52.45



# A MODERN PUMP will make life easier

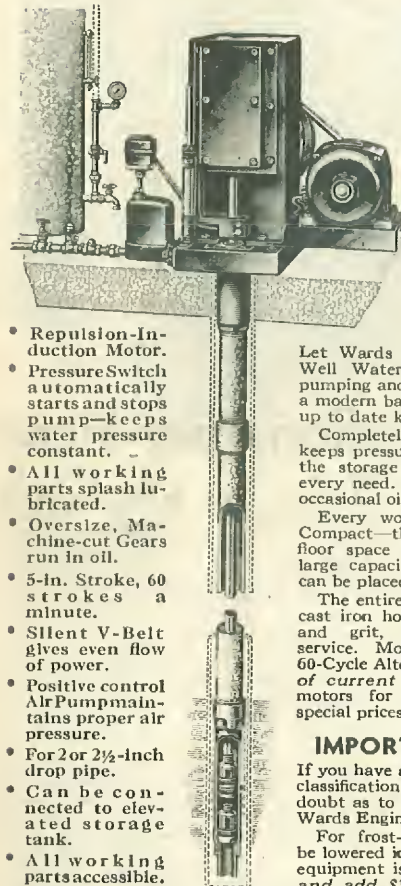
## DEEP WELL PUMPS

### Complete Automatic ELECTRIC OUTFIT For Wells up to 225 Feet Deep

**\$61.50**

Cash Price  
Head and Motor Only

**\$6 DOWN**  
**\$7 A Month**  
See Page 3



- Repulsion-Induction Motor.
- Pressure Switch automatically starts and stops pump—keeps water pressure constant.
- All working parts splash lubricated.
- Oversize, Machine-cut Gears run in oil.
- 5-in. Stroke, 60 strokes a minute.
- Silent V-Belt gives even flow of power.
- Positive control Air Pump maintains proper air pressure.
- For 2 or 2½-inch drop pipe.
- Can be connected to elevated storage tank.
- All working parts accessible.

Let Wards Completely Automatic Deep Well Water Systems relieve you from pumping and hauling water, make possible a modern bathroom—an indoor closet—an up to date kitchen and laundry!

Completely automatic—electric switch keeps pressure between 20 and 40 lbs. in the storage tank—plenty of water for every need. Only attention required is an occasional oiling.

Every worthwhile mechanical feature. Compact—the pump and motor require a floor space only 27 by 13 inches. The large capacity, heavily galvanized tanks can be placed at a distance from pump.

The entire pump is enclosed in a heavy cast iron housing that keeps out all dirt and grit, insuring long, trouble-free service. Motors are for 110 to 220 volt 60-Cycle Alternating Current. *State kind of current you use.* We can furnish motors for other voltages. Write for special prices.

#### IMPORTANT—READ THIS

If you have a well that does not fall in the classification listed here, or if you are in doubt as to the pump you need, write to Wards Engineering Service Department.

For frost-proof installation, head can be lowered into frost-proof pit. When this equipment is desired, *state so in order, and add \$3.75.* For deep well outfits with gasoline engines, write for special prices.

Shipped from Stock in Baltimore, Md. or Albany, N. Y. Low Freight Rates on Page 2. See Budget Plan on Page 3.

#### Complete Outfits—Pump 200 Gallons Per Hour

Deep Well Head with motor; 1-in. discharge opening; 2-in. drop pipe; 1½-in. brass cylinder; 42-gal. tank with water gauge; pressure gauge, also valves, pipe and fittings to connect pump to tank.

Article Number	Depth Well	Motor H.P.	Ship. Wt.	Price
181 HB 3412	60 ft.	½	675 lbs.	\$108.75
181 HB 3413	100 ft.	½	875 lbs.	133.50
181 HB 3414	150 ft.	½	1075 lbs.	155.00
181 HB 3450	225 ft.	¾	1410 lbs.	194.00

For wells shallower than those listed, deduct 42c per foot for each foot of drop pipe not needed.

#### Complete Outfits—Pump 300 Gallons Per Hour

Deep Well Head with motor; 1-in. discharge opening; 2½-in. drop pipe; 2½-in. cylinder; 82-gal. tank with water gauge; pressure gauge. Valves, pipe and fittings to connect pump to tank.

Article Number	Depth Well	Motor H.P.	Ship. Wt.	Price
181 HB 3455	50 ft.	½	785 lbs.	\$129.00
181 HB 3456	110 ft.	¾	1135 lbs.	169.00

For wells shallower than those listed, deduct 55c per foot for each foot of drop not needed.

#### Deep Well Heads and Motor Only—Without Tanks

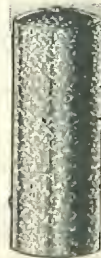
Ship. wts.: 241, 270 and 280 lbs.

Shipped from Stock.				Maximum Lift of Water When Used With			
Article Number	Size Motor in Horse Power	Cash Price	Budget Plan Price	1½-in. Cyl. 120 gal. Per hr.	2½-in. Cyl. 200 gal. Per hr.	2½-in. Cyl. 300 gal. Per hr.	
181 HB 3421	½	\$61.50	\$68.00	100 ft.	60 ft.	75 ft.	
181 HB 3422	½	70.85	78.35	200 ft.	150 ft.	75 ft.	
181 HB 3423	¾	78.95	86.45	300 ft.	225 ft.	100 ft.	

## WHAT YOU NEED FOR A DEEP WELL OUTFIT

- Pump Head as listed at left.
- Cylinder (Select size from listings on page 30).
- Tank as listed below.
- Pressure Gauge and Relief Valve.
- Fresh Water Valve (optional).
- Pipe and Pump Rod (from pump head to cylinder).

If you have any questions, write our Engineering Service Department



For Budget Plan See Page 3

## DEEP WELL ACCESSORIES

### Black or Galvanized Pressure Tanks

Heavily galvanized inside and outside upright type tanks tested to 150 lbs., hydrostatic pressure. Especially made to meet the requirements for Pressure Water Systems. Galvanized tanks are hot dipped galvanized inside and out—Black tanks are coated with black asphaltum paint. Both have electrically welded seams and have two ½-in. tappings for water gauge and extra 1½-in. tapping for air volume control. Gauge and air control not included. The 18, 42 and 82-gal. tanks shipped from Stock, other sizes shipped from Factory near Philadelphia, Pa. Pipe and fittings on Pages 21 to 23.

Capacity Gallons	Size Inches	Inlet Inches	Outlet Inches	Ship. Wt. Lbs.	181 HB 8215 Black	181 HB 8216 Galvanized
18	12 by 36	1½	1½	50	.....	\$ 7.65
42	16 by 48	1½	1½	100	.....	8.85
82	20 by 60	1½	1½	170	.....	14.15
120	24 by 60	1½	1½	225	\$14.50	17.25
144	24 by 72	1½	1½	250	20.00	24.00
220	30 by 72	1½	1½	410	28.00	33.50
315	36 by 72	1½	1½	535	43.75	52.00

### Anti-Freeze Rods—For Deep Well Pumps

481 HB 3148—Permits placing pumping mechanism 5 ft. below working head under frost line. Outfit consists of 4 support rods, 1 air pump extension rod, and 1 pump rod extension with all bolts for attaching. Instructions included. Ship. wt. 11 lbs. Mailable. Per set.....\$3.75



#### Water Gauge

81 HB 3150—Use for determining water level in Water System tank. Ship. wt. 2 lbs. 4 oz. For all sizes listed above...\$1.19



#### Relief Valve for Extra Safety

81 HB 3145—Prevents damage to piping from excess pressure. ¾-in. inlet and ½-in. outlet. Mailable. Ship. wt. 12 oz. Each.....80c

#### PRESSURE GAUGE



81 HB 3151—Registers 0 to 80 lbs. 2½-inch face marked for each 2 lbs. pressure. For ¼-inch pipe. Mailable. Shipping weight 12 ounces. Each.....95c

#### FRESH WATER VALVE



81 HB 3147—Permits pumping water direct from well instead of through tank. For deep well pump. Fits 1-in. pipe. Mailable. Shipping weight 1 pound. Each.....\$1.85

#### FOOT VALVES



81 HB 3146—Foot Valve, for ¾-inch pipe, fits inside 1¼-inch pipe.....60c  
81 HB 3149—Same for 1-in. pipe. Fits inside 1½-in. pipe. Mailable. Shipping weight each 12 ounces.....60c

## ELECTRIC CELLAR PUMP

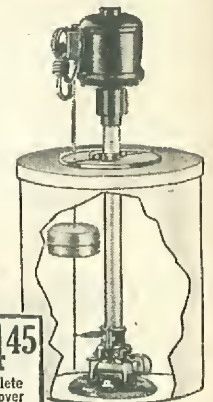
Pumps water quickly and automatically from flooded basements, pits, excavations, drains etc. Pumps 800 gallons an hour at 5-foot head—600 gallons per hour at 10-foot head. Completely automatic—starts and stops by itself. Can be used wherever electricity is available. Easily and economically installed. Quiet and economical in operation. Maximum head 20 ft.

#### Check These Quality Construction Features

- Powerful Remy electric motor for 110 volt alternating current or direct current.
- Norma Hoffman ball thrust grease sealed bearings.
- Oil-less bronze intermediate bearings.
- Stainless steel shaft will never rust out.
- Cast bronze impeller for greatest strength.
- Positive automatic action.
- Four part adjustable take up lower bearing—water lubricated Goodrich Cutler rubber.
- Positive, rugged type switch.

The above construction insures many years of economical, trouble-free service. Complete with heavy iron cover as pictured. For 110-volt, 60-cycle Alternating Current. Write for special prices for other voltages. Height overall 40 inches. Can be installed in 18 or 20 in. tile. Discharge outlet for 1½-in. pipe. Shipped from Factory near Detroit, Mich. Ship. wt. 70 lbs. Low Freight Rates on Page 2 under Pumps, Power. Wards Budget Plan, Page 3.

281 HB 3049—With cover as shown.....\$34.45  
281 HB 3048—Outfit without cover.....29.95



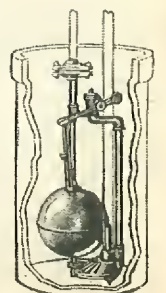
**\$34.45**  
Complete with Cover

## AUTOMATIC CELLAR PUMP

- Automatically drains water from cellars, pits and small excavations
- Heavy copper ball float—resists rust
- Corrosion-proof bronze gauge strainer
- Convenient operating lever and valve
- Strong, heavy galvanized iron base

Uses water pressure to syphon water seepage from cellars, pits etc. Excellent where water continually seeps in to your basement. Simple and economical to install—you can do it yourself by following the simple instructions furnished. Once installed it costs nothing to operate. Quiet in operation. So designed that no water can remain in discharge pipe; consequently all danger of a frozen waste pipe is eliminated. Tapped for ½-in. supply, 1-in. discharge, 1½ in. high. Base fits inside 12-inch drain tile. Requires water pressure of 20 lbs. or more for successful operation. 5 lbs. of pressure raises water one foot. Shipped from Stock. Ship. wt. 18 lbs.

481 HB 6737.....\$14.75





# City Sanitation for Country Homes

## WARDS SEPTIC TANKS for Homes with Running Water but No Sewers

Every home needs a modern bathroom. The cleanliness and personal convenience of modern plumbing is no luxury when Wards offer the finest type of Septic Tank at so low a price. Safe and odorless—and after it is installed you merely leave it alone, except for an occasional (1 to 5-year) cleaning. The extent to which it safeguards the health and well-being of your family is invaluable. Wards Septic Tanks are:

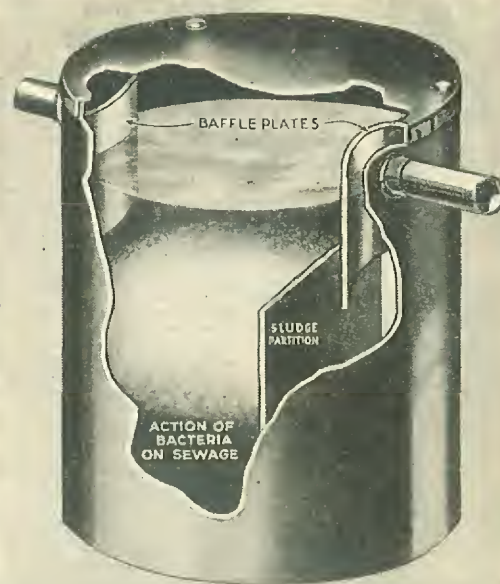
- 14-Gauge Copper Bearing Steel Electrically Welded for strength and long life.
- Designed for Greatest Efficiency—No Chemicals Needed
- Equipped with Built-in Connections to Fasten Pipe
- Recommended by Health Authorities.

Operates on the same principle as many of the disposal plants in America's largest cities. The sewage is purified by a natural process of bacterial action. So sanitary and safe that it may be installed within 10 feet of house without any odor. Recommended as health insurance for homes without sewers. It is simple to install, too—thousands of our customers have done it without any previous experience by following our simple instructions which accompany each order. It is only necessary to connect it to house drain using several lengths of soil pipe—ordinary tile is used for the disposal bed which should be at least 100 feet and drain away from well or water source. The entire installation for the average home should be completed in two days by two men. Once it is installed it requires practically no attention—depending on soil conditions. Cover is removable allowing easy access. *Shipped separately from Factory near Philadelphia, Pa. or Buffalo, N. Y.* Freight is fast and economical. See Freight Rates under "Septic Tanks" on Page 2.

Article Number	Diameter Tank, In.	Depth Inches	Working Capacity Gallons	For Family of	Shipping Weight Pounds	Price Each
231 HB 8210	38	48	200	6	230	\$14.65
231 HB 8211	48	48	300	10	290	17.75
231 HB 8214	52	60	500	20	370	27.75

**\$14<sup>65</sup>**

200-Gallon  
SIZE



### Grease Trap

Placed ahead of the Septic Tank, this Grease Trap catches grease and other hard-to-dissolve particles. No chemicals necessary. 14-gauge copper bearing steel; cast iron cover; openings for 2-in. soil pipe. Size, 18 by 24½ in. high. *Shipped separately from Factory near Philadelphia, Pa.*

281 HB 8209—Ship. wt. 65 lbs. \$7.25



## SANITARY... ODORLESS INDOOR CHEMICAL CLOSETS Even if Your Home Does Not Have Running Water

### EASILY INSTALLED

**\$5<sup>49</sup>**

You don't have to do without some of the modern conveniences that make a home more livable when an Indoor Chemical Closet costs

only \$5.49 at Wards! That's less than an old-fashioned out-house. A blessing for homes, farms, churches, filling stations or schools; wherever there is no running water or sewers. Sanitary, odorless Chemical Closet made for indoor installation that costs little and gives great comfort the whole year 'round. A necessity where there are old or sick folks. Avoid winter discomforts. Constructed of heavy sheet steel smoothly enameled with removable 6-gallon container of galvanized steel. Easy to keep clean. The three to six-month supply of chemical which is furnished, eliminates odors and kills germs. (For additional chemical see below.)

Complete with seven 12-inch lengths of vent pipe with ten elbows; wall collar for vent pipe (all handsomely enameled); toilet paper holder, toilet paper and 1 gallon of chemical (enough for several months), strongly constructed oak seat and lid.

Outer case is 14½ inches high and 13½ inches in diameter. Requires floor space 3 by 4 feet. Can be installed quickly by one man. *Mailable.*

*When Purchasing for Schools Be Sure to Comply with All State Ordinances*

481 HB 6447—Complete. Ship. wt. 39 lbs. \$5.49  
81 HB 6444—Extra 3-inch Vent Pipe in 12-inch lengths. Ship. wt. 12 oz. 15c  
81 HB 6450—Extra 3-inch Vent Elbow. Ship. wt. 8 oz. 15c



### 98c Chemical for Indoor Closets

This quick-acting disinfectant chemical works perfectly in all types of chemical closets. Causes sewage to liquefy, making it odorless and sanitary. 1-gallon can *Mailable*. 5-gallon can *Not Mailable*. For Low Freight Rates see Page 2.

581 HB 6441—1-gal. Can. Ship. wt. 19 lbs. 98c  
181 HB 6439—5-gal. Can. Ship. wt. 48 lbs. \$3.95

### NO HAND EMPTYING

**\$18<sup>45</sup>**

Gives all the comforts and conveniences of a regular water closet installation for homes without running water. It is easy to install, sanitary, odorless and does not require empty-

ing by hand. Just run a pipe to an ordinary barrel buried upside down in the ground outside and the chemical action in tank, aided by agitator, causes sewage to liquefy and drain into barrel. Enough chemical is supplied to last a family of five persons 3 to 6 months. For additional chemical order No. 581 HB 6441 or 181 HB 6439 listed below at left.

You'll like its fine appearance too... the outer steel case and vent pipe are smoothly enameled; seat and cover are of stained and varnished oak. The tank below the floor line is 18-gauge steel and has a capacity of 25 gallons. Complete with 8 feet of vent pipe and elbow, adjustable galvanized roof flange, hood ventilator cap, toilet paper holder, toilet paper, one gallon of chemical and instructions for installing. Barrel, elbow and pipe to barrel not included. We do not recommend installation less than 100 feet from drinking water supply. *Shipped from Factory near Buffalo, N. Y.* Low Freight Rates on Page 2.



*When Purchasing for Schools Be Sure to Comply with All State Ordinances*

281 HB 6460—25-gallon tank, size 14 by 34 inches. Ship. wt. 125 lbs. \$18.45  
281 HB 6465—65-gallon tank, size 24 by 36 inches. Ship. wt. 160 lbs. 28.95  
Make up an order of \$20 or more, you can select a wide variety of merchandise—things for the house, or for the farm, and have them all come at once by making just one small down payment and paying a small amount monthly—see Page 3.



### Radiator Nipple Wrench

Simplifies radiator repairs. Strong malleable iron. For ¾, 1¼, 1½, and 2-inch radiator unions. Ship. wt. 1 lb. 8 oz. *Mailable* but not prepaid.

81 HB 6789—Each. \$1.00



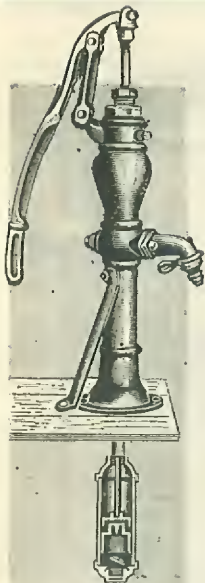
### Calking Irons

Made of solid forged tool steel. Ship. wt. each, 1 lb. *Mailable* but not prepaid.

81 HB 6786—Regular pattern ¾-in. stock 35c  
81 HB 6787—Yarning iron. ¾-in. stock. 35c



# IF YOU'VE EVER USED A WARD PUMP



**Hand Operated  
Force Pump  
4-Ft. Set Length**

**\$8.95**  
Complete

Smooth, easy acting with a volume of water with every stroke. Just the pump you need for filling your stock tanks. Also tapped opposite the spout for 1/4-in. iron pipe for pumping to overhead storage tanks. Sprinkling hose connection furnished. Has sturdy cast iron base to hold standard firmly in place. Extra heavy cast iron standard, painted green; drip hole above cylinder to prevent freezing; 6-inch stroke and many other features. Your choice of cylinders, both give many years of satisfactory service. Iron with brass valve seat—brass-lined with brass cage and brass valve seat. Extra Quality Pump Leathers good for about 4 years' service. Read "How to Order" on next page. See Page 2 for low Freight Rates on Hand Pumps.

**Pumps Complete With 4-Ft. Galvanized Set Length and Cylinders for Wells Up to 30 Feet**

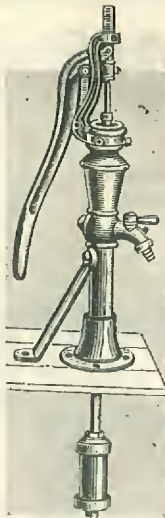
Article Number	Size of Cylinder Inches	Size Pipe In.	Ship. Wt. Lbs.	With Iron Cylinder	Brass Lined Cylinder
----------------	-------------------------	---------------	----------------	--------------------	----------------------

181 HB 5811 3 by 10 1 1/4 81 \$ 8.95 \$10.25

## Pump Standard Only

For wells up to 100 ft. deep. Set length or cylinder not included. Tapped for 1/4, 1/2 and 2-inch suction pipe. State size tapping. Ship. wt. 57 lbs. For Freight Rates see "Hand Pumps" on Page 2. Read "How to Order" next page.

181 HB 5862.....\$5.75



**Windmill Top  
Force Pump  
4-Ft. Set Length**

**\$10.25**

A three-purpose, anti-freeze pump. Can be operated by hand, windmill, or pump jack. Back of pump is tapped for 1/4-inch iron pipe so that water can be forced into overhead tanks. Green finished cast iron standard with cock spout and hose connection. Drip hole above cylinder prevents freezing. Six-inch stroke. Iron cylinder has brass valve seat. Brass-lined cylinder has brass cage and brass valve seat to prevent rust and corrosion. Extra Quality Pump Leathers good for about 4 years' service.

Read "How to Order" on opposite page. For Freight Rates on Hand Pumps, see Page 2.

**Pumps Complete With 4-Ft. Galvanized Set Length and Cylinders for Wells Up to 30 Feet**

Article Number	Size of Cylinder Inches	Pipe Size Inches	Ship. Wt. Lbs.	With Iron Cylinder	Brass Lined Cylinder
----------------	-------------------------	------------------	----------------	--------------------	----------------------

181 HB 5842 3 by 10 1 1/4 96 \$10.25 \$11.25  
181 HB 5843 3 1/2 by 10 1 1/2 100 10.75 12.25  
181 HB 5844 4 by 10 2 114 12.85 14.65

Pump Standard only. Without set length or cylinder. For wells up to 100 feet. Tapped for 1/4, 1/2, or 2-inch suction pipe. State size tapping. For Freight Rates, See "Hand Pumps," Page 2.

181 HB 5861—Ship. weight 74 lbs. ....\$7.25

Extra Heavy Standard only. Without set length or cylinder. For wells up to 300 feet. Adjustable stroke. Tapped for 1/4, 1/2, or 2-inch suction pipe. State size tapping.

181 HB 5863—Ship. weight 89 lbs. ....\$12.45



**Hand Operated  
Lift Pump  
4-Ft. Set Length**

**\$5.25**

Heavy cast iron standard in a deep green finish. Drip hole above cylinder prevents freezing. Six-inch stroke. Iron cylinder has brass valve seat. Brass-lined cylinder has brass cage and brass valve seat. Has adjustable head so that pump handle can be set in any direction desired. Built of heavy material, for hard continuous usage. Extra quality Pump Leathers good for about 4 years.

## Pump Standards Only

Without set length or cylinder. For wells up to 30 feet deep. Tapped for 1/4-inch pipe only. Ship. wt. 36 lbs.

181 HB 5840—Standard...\$3.25

Extra Heavy Standard Only Without set length or cylinders. For wells up to 60 feet deep. Tapped for 1/4, 1/2, or 2-inch pipe. State size of tapping. Ship. wt. 49 lbs.

181 HB 5848—Standard...\$4.85

**Pump Complete With 4-Ft. Galvanized Set Length and Cylinders for Wells Up to 30 Feet**

Article Number	Cylinder Inches	Pipe In.	Ship. Wt. Lbs.	With Iron Cylinder	Brass Lined Cylinder
----------------	-----------------	----------	----------------	--------------------	----------------------

181 HB 5799 2 1/2 by 10 1 1/4 58 \$5.25 \$6.25  
181 HB 5800 3 by 10 1 1/4 60 5.45 6.45

## Extra Heavy Set Length Pumps

Same as above but heavier construction for longer wear.

Article Number	Cylinder Inches	Pipe In.	Ship. Wt. Lbs.	With Iron Cylinder	Brass Lined Cylinder
----------------	-----------------	----------	----------------	--------------------	----------------------

181 HB 5805 3 by 10 1 1/4 75 \$5.75 \$6.85

FOR MONTHLY PAYMENTS SEE WARDS BUDGET PLAN ON PAGE THREE

## PUMP SUPPLIES—Save Time and Money by Ordering from Wards

### Brass Well Cylinder

Cylinder body seamless brass tubing. Valves are all brass spring spool poppet type. With waterproof, frictionless cup leathers and red rubber faced poppets. Plunger valve and check valve may be removed without removing casing. Fitted for 3/8-inch pump rod. State inside diameter of bore.

581 HB 3157—Ship. wts. 5, 6 and 9 lbs.

Size Casing Necessary	Inside Diam. Bore	Stroke	Lgh. Barrel	Pipe Size Top Bottom	Price
-----------------------	-------------------	--------	-------------	----------------------	-------

2 1/2 in. 1 3/4 in. 10 inch 18 in. 1 1/2 in. 1 in. \$ 5.98  
3 in. 1 3/8 in. 10 inch 18 in. 1 1/2 in. 1 in. 6.85  
3 1/2 in. 2 1/4 in. 10 inch 21 in. 2 1/2 in. 1 1/4 in. 10.75

### Octagon Wood Pump Rod

First quality Ash. Shipped in random lengths of about 18 feet. Complete with couplings. Diameter of rod 1 1/4-inches. Ship. wt. per foot 6 oz. Not Mailable.

181 HB 6037—Per foot.....19c

181 HB 6038—Galvanized forged steel 3-hole couplings to fit pump rod above. Ship. wt. 8 oz. 65c

### Iron Well Cylinder

Wards cylinders are furnished with brass valve seats to resist corrosion. Brass-lined cylinders also have brass cage. For hand use, and smoothness and ease of operation we recommend the 2 1/2 to 3-inch for wells 55 to 100 feet deep. 6-inch stroke in 10-inch size; 10-inch stroke in 16-inch size. Cylinders up to 3 inches in diameter are tapped for 1 1/4-inch iron pipe, 3 1/2-inch diameter for 1 1/2-inch pipe, and 4-inch diameter for 2-inch iron pipe. Single leather plunger on 10-inch size, and 16-inch cylinders have a double leather plunger good for about 4 years. Shipping weights: 14 to 18 lbs. Mailable. State size wanted. May be bought on Monthly Payments—see Wards Budget Plan on Page 3.

Bore In.	10-In.	16-In.	10-In.	16-In.
----------	--------	--------	--------	--------

481 HB 5956—Iron Cylinders. The inside is ground smooth and polished. Brass valve seat.  
2 1/2 1.45 2.25 2.75 3.45  
3 1.65 2.55 3.45 4.40  
3 1/2 1.95 3.60 4.40 5.75  
4 2.75 4.65 4.75 5.75

### Pump Rods



About 18-foot lengths (not threaded). Diam. of rod, 7/16-inch. Add 5 cents extra for each end you want threaded. Ship. wt. 100 feet, 52 lbs. See Freight Rates, page 2 under Pump Parts.

181 HB 6036—Not Mailable.

Per foot.....5c

81 HB 6041—Pump Rod Couplings.

For 7/16-inch rod. Ship. wt. 4 oz. Mailable.

Each.....6c

### Well Pipe Holder



Holds pipe sections while making connections. Adjustable to hold 1, 1 1/4, 1 1/2 and 2-inch pipe. Ship. wt. 35 lbs. Not Mailable.

181 HB 6052.....\$3.45

### Pump Cylinder Cup Leathers



Oak tanned. The size given is inside diameter of cylinder. Ship. wt. 3 oz. to 1 lb.

81 HB 5984—State size.

Size	Each
------	------

1 3/4-inch 7c  
2-inch 8c  
2 1/4-inch 9c  
2 1/2-inch 11c  
2 3/4-inch 13c  
3-inch 14c  
3 1/2-inch 19c  
4-inch 25c  
4 1/2-inch 30c  
5-inch 35c

### Carbon Steel Drive Well Points

Solid forged point. Rectangular holes, increasing the inflow of water 25% with perforated jacket. State size.

Diam. Pipe In.	Length Overall	Ship. Wt. Lbs.	481 HB 5990 60-Gauge	481 HB 5992 80-Gauge	481 HB 5991 100-Gauge
----------------	----------------	----------------	----------------------	----------------------	-----------------------

1 1/4 30 in. 11 \$1.35 \$1.95 \$3.10  
1 1/2 36 in. 11 1.75 2.40 3.90  
1 3/4 42 in. 11 2.20 2.90 4.45  
2 48 in. 11 2.65 3.70 5.55  
2 1/2 36 in. 12 2.75 3.70 5.55  
3 42 in. 12 2.95 3.70 5.55  
3 1/2 42 in. 17 4.25 5.45 7.85  
4 54 in. 21 5.65 7.15 9.95

### SAFETY CISTERN COVER



**\$2.95**

18-Inch Cover

Keep cisterns covered with Wards Safety Cistern Covers. Built of heavy cast iron. Complete with frame. Lid bolts down. Ship. wts. 40 and 50 lbs. Not Mailable. For Freight Rates see Page 2.

181 HB 6139—For 18-inch openings.

Each.....\$2.95

181 HB 6140—For 20-inch openings.

Each.....3.45

### Iron Drive Caps



Protect pipe threads when driving well pipe. Mailable. Ship. wts. 1 lb. 8 oz., 2 lbs., 2 lbs. 12 oz.

81 HB 5995—State size wanted.

Iron Pipe Size	Each
----------------	------

1 1/4-inch 33c  
1 1/2-inch 39c  
2-inch 69c

### Spout Attachment



Fits any regulation size spout. Screw in pipe to convey water. Ship. wt. 5 lbs. Mailable.

81 HB 5890—For 1 1/4-in. pipe.....45c

81 HB 5891—For 1 1/2-in. pipe.....50c

### Foot Valve and Strainer



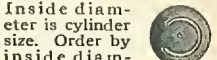
Holds prime in pump. Has long lasting leather check valve. Strainer keeps out impurities. Shipping weight 3 to 17 pounds. Mailable.

81 HB 6000—State size.

Size	Each
------	------

1 1/4-inch 65c  
1 1/2-inch 75c  
2-inch \$1.00  
2 1/2-inch 1.45  
3-inch 1.95

### Check Valve Leathers



Inside diameter is cylinder size. Order by inside diameter. Mailable. Ship. wts. 2 to 8 oz.

81 HB 5985

Inside	Outside	Each
--------	---------	------

2-in. 2 1/2-in. 5c  
2 1/2-in. 3-in. 6c  
3-in. 3 1/2-in. 7c  
3 1/2-in. 3 3/4-in. 8c  
3-in. 3 1/2-in. 9c  
3-in. 4-in. 12c  
4-in. 4 1/2-in. 16c



# YOU KNOW HOW GOOD THEY REALLY ARE

## HOW TO ORDER PUMPS

IN THE description of each pump we state the depth of well the pump will serve—the depth being the distance between the pump platform and the lowest water level in dry seasons. Any of the pumps listed on this or the opposite page are suitable for shallow wells, where distance from pump platform to water is 20 feet or less. Our set length pumps are also designed for deeper wells where distance from pump platform to water is greater than 20 feet.

In set length pumps we attach the cylinder on the drop pipe 4 feet below the base of the pump. Additional pipe of correct size should be ordered to reach from cylinder to a point at least 6 inches below the lowest water level. If well is over 24 feet deep order enough pipe and pump rod to lower cylinder into water sufficiently deep to keep cylinder submerged even in dry seasons. For wells over 100 feet deep order our extra heavy pump standard. Lift pumps will draw water only to the pump spout. When it is desired to force water to an elevated storage tank or pressure tank order a force pump.

Our Engineering Service Department will furnish you with any additional information on Pumps and Water Systems you may want. Write them—this service is free.

For WARDS BUDGET PLAN See Page 3

## PITCHER SPOUT LIFT PUMP

Think of the convenience of having a pump in your kitchen. No more carrying water from the outside, summer or winter. No pails of water standing around and becoming warm and brackish. This pump is as much a necessity in your home as a cooking range.

Made of heavy iron with adjustable head with set screw so handle can be turned in any direction. For wells or cisterns up to 20 feet deep. Base tapped for 1½-inch iron pipe. Ship. wts. 20 and 22 lbs. Mailable.

481 HB 5911—3-inch iron cylinder. . . . . \$1.25  
481 HB 5914—3-inch brass lined cylinder. . . . . 1.95  
481 HB 5912—3½-inch iron cylinder. . . . . 1.85  
481 HB 5917—3½-inch brass lined cylinder. . . . . 2.45



\$125

## HYDRAULIC RAM

Send for Free Book

Simple and economical to operate. Automatic . . . it's always on the job. Uses power supplied by weight and flow of water to pump a part of it higher than its source. Wards Budget Plan of Monthly Payments on Page 3. Low Freight Rates, see Rams on Page 2. Write for Free Book on Rams—or write our Engineering Service Dept. for FREE information and assistance in selecting the size ram you need.

181 HB 5950—State size wanted.

Size	Gallons Water per Minute to Operate	Size Pipe Required		Shipping Weight	Cash Price
		Supply	Discharge		
2	1 to 2	¾-inch	½-inch	25 lbs.	\$12.85
3	2 to 4	1-inch	½-inch	35 lbs.	14.95
4	3 to 7	1½-inch	¾-inch	49 lbs.	19.75
5	6 to 14	2-inch	1-inch	60 lbs.	24.45

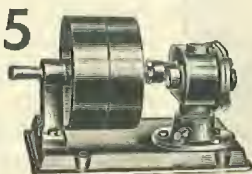


\$1285

## ROTARY PUMP

Constructed of cast iron. For use where suction lift is not over 20 feet. Forces water 150 feet above pump. Tight and loose pulleys. One-piece cam case, with removable front plate. If pump is to be used for pumping gasoline write us for prices of specially fitted pumps.

Shipping weights: 85 and 105 pounds. See Freight Rates on Page 2 under Power Pumps.



\$1375

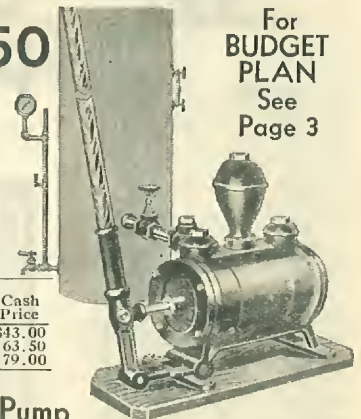
Article Number	Size In. Suction and Dis.	Size of Base	H. P. Req. 100 ft. Head	Gals. per Hour 200 R.P.M.	Size Pulley In.	Cash Price
181HB5885	1¼	11½x21½	1½	1440	10x3	\$13.75
181HB5887	1½	12¼x23	2	2400	10x3	17.85

## HAND-POWER WATER SYSTEM

LIFTS WATER FROM 20 FEET—FORCES IT AS HIGH AS 80 FEET

Have running water in your home from wells, cisterns, lakes, or streams where lift is not over 20 feet, and horizontal distance to water not over 200 feet. Air and water pumped at the same time. Tank is tested to 75 lbs. working pressure. Pump has 3-inch brass lined cylinder with 3½-inch stroke. 1¼-inch suction pipe. Outfit includes pump, tank, water gauge, pressure gauge, drain cock, and all valves and fittings to connect pump to tank. Pipe connection to pumping fixtures, threaded ¾-inch. Pump and fittings shipped from Stock. Tanks are shipped from Factory near Philadelphia, Pa. or Pittsburgh, Pa. Low Freight Rates on Page 2 under Hand Pumps.

\$3950



For BUDGET PLAN See Page 3

Size Tank Feet	Cap. Gal.	Ship. Wt. Lbs.	Outfit With Black Painted Tank	Cash Price	Outfit With Galvanized Tank	Cash Price
2 x6	144	325	181 HB 8220	\$39.50	181 HB 8221	\$43.00
2½ x6	220	490	181 HB 8220	52.00	181 HB 8221	63.50
3 x6	315	605	181 HB 8220	67.00	181 HB 8221	79.00

## Horizontal Force Pump

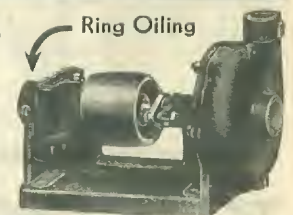
Pump only, same as shown in above outfit. With 1¼-inch suction and one-inch discharge opening. Air attachment can be had for pumping air with water. Ship. wts. 63 and 62 lbs. See Low Freight Rates on Page 2.

181 HB 5939—Horizontal Force Pump with air attachment. Each. . . . . \$12.65  
181 HB 5936—Horizontal Force Pump without air attachment. Each. . . . . \$11.95

## CENTRIFUGAL PUMP—Use with Engine or Tractor

For irrigating; for draining swamps and ditches and for filling large overhead tanks. Handles a large volume of water where suction lift is not over 20 ft. Bearings are all bronze. Outboard bearing is ring oiled. Extra long packing gland with grease cup. Pumps with 2½-inch discharge openings or larger have flanged openings. Smaller sizes have suction and discharge tapped for pipe connections. Send these specifications with order: horizontal length, and vertical height of suction and discharge pipes; motor or engine size, speed and pulley size. Shipped from Stock in Baltimore or Factory near Syracuse, N. Y. Low Freight Rates on Page 2 under Power Pumps. State size.

\$1185



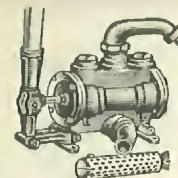
Discharge	Suction	Capacity Gal. per Minute	Horse-power 40-Ft. Head	Speed R.P.M. 40-Ft. Hd.	Diam. and Face of Pulley	Ship. Wt. Lbs.	181 HB 5964
¾-in.	1-in.	5-20	¾	1856	3¾ by 4 in.	40	\$11.85
1-in.	1¼-in.	20-35	1	1836	3¾ by 4 in.	45	12.75
1½-in.	2-in.	40-80	2	1888	4 by 4 in.	65	22.25
2-in.	2½-in.	100-160	4	1660	4 by 4 in.	85	26.95
2½-in.	3-in.	180-260	6	1468	6 by 6 in.	175	47.95
3-in.	4-in.	280-340	9	1325	7 by 6 in.	205	59.95

For Pipe and Fittings at a Savings See Pages 21 to 23

## THRESHER TANK PUMP

Pumps 1000 Gallons per Hour \$995

Capacity 1000 gallons per hour at 30 strokes per minute. Fills tanks, empties cess pools, etc. where suction lift is not more than 20 ft. Made of high quality materials. 5-in. smooth iron cylinder with 3½-inch stroke. With strainer. Adjustable discharge spout tapped for 2 in. iron pipe; 2 in. hose suction; 2 in. iron pipe; 1 in. hose discharge. Ship. wt. 75 lbs.  
181 HB 5927—Iron cylinder, polished smooth. Each. . . . . \$9.95  
181 HB 5928—Same, but brass lined. . . . . 12.45



## Brass Cylinder FORCE PUMP

For wells and cisterns up to 20 feet deep. 3-inch polished brass cylinder. Tapped for 1¼-inch suction pipe and for one-inch pipe for pumping to tank, etc. Plain spout with standard hose thread.

Shipping weights 17 and 18 pounds.

Mailable.

481 HB 5916—With plain spout. . . . . \$4.75  
481 HB 5915—Same as above, but with brass faucet spout for ¾-inch hose connection. . . . . \$5.25



## BARREL PUMP

Pumps gasoline, oil, syrup, or other liquids out of barrels. Used for filling gasoline tanks on tractors, cars, etc. Hand Rotary type. Pumps 13 gallons per minute. Forces liquid 15 to 20 feet above pump. Strongly made of iron with 3-foot discharge hose and gooseneck. Hose is not affected by oil or gasoline. Fits steel or wood barrels. Ship. wt. 65 lbs. See Low Freight Rates on Page 2 under Hand Pumps.  
181 HB 5895—Each. . . . . \$16.25



## WELL BORER

Bores wells up to 25 feet deep and 8 to 14 inches in diameter. Just what you need to dig through sand, sticky clay, mud, and gravel with the minimum of effort. Handy for digging post or foundation holes. Can also be used under water. Hardwood handle. Adjustable blade. Has iron pipe extension giving total length of 25 feet. You will find many uses for this Earth Auger around your home and buildings. Shipping weight 45 pounds. Not Mailable. See Freight Rates on Page 2.



181 HB 5838—Each. . . . . \$6.95





# HOT WATER . . . at the Turn

## 39 Gallons of Hot Water Per Hour With No. 1 Fuel Oil

**\$5900**

Cash Price

FOR BUDGET PLAN  
SEE PAGE 3

Fahrenheit. It will heat up to 40 gallons of hot water an hour (80 degrees temperature rise), while burning about  $\frac{1}{2}$  gallon of oil. When the tank is full of hot water, it burns with a low flame, consuming about  $\frac{1}{8}$  pint of oil per hour.

Burner is equipped with a demountable firepot for easy cleaning, and a secondary air adjustment that adapts it to a wide range of drafts. The intense, white flame causes very little carbon—burners seldom need cleaning. The controls are "Genuine Detroit," by the same manufacturer who makes carburetors for some of America's finest automobiles. The 30-gallon steel tank is hot dip galvanized inside and out, and tested to 300 lbs. for 125 lbs. working pressure. Heavily insulated with 1 inch of flake asbestos. Finished in light green with dark green trim. Water connections for 1-in. pipe; oil connection for  $\frac{1}{4}$ -in. pipe or  $\frac{1}{16}$ -in. O.D. copper tubing. We recommend that you install a Safety Relief Valve with your heater; see Page 34. Pipe and fittings on Page 21. Ship. wt. 345 lbs. Low Freight Rates, Page 2. *Shipped from Factory in Bloomington, Ill.*

281 HB 6660—30-gallon capacity. Cash Price. . . . . \$59.00

### FUEL TANK for WATER HEATERS

Here is a Wards Automatic Water Heater ideally installed with 55-gallon Storage Drum (No. 181 HB 6653) and Stand (No. 181 HB 6654) shown at right. Drum is 18 gauge black iron, size 35 by 25 in. Connect to heater with  $\frac{3}{4}$ -in. pipe or copper tubing. Tank can be used with Fuel Oil Burning Heater or Kerosene Burning Heater.

181 HB 6653—55-Gallon Storage Drum. Ship. wt. 52 lbs. . . . . \$6.00  
181 HB 6654—Stand for Drum. Ship. wt. 13 lbs. . . . . 2.75

Listed by Underwriters' Laboratories, Inc.



# KEROSENE is Clean...Economical!

### Heater With Insulating Shell

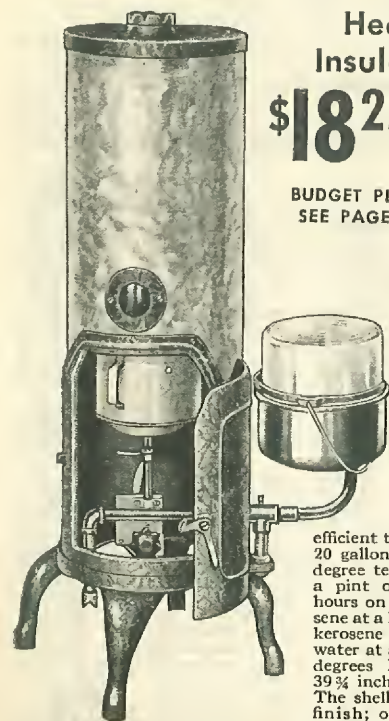
**\$18<sup>25</sup>**

BUDGET PLAN  
SEE PAGE 3

- Stands on its own legs—total height 39 $\frac{3}{4}$  in.
- Asbestos-lined shell of steel is attractive in appearance.

It's the extra insulation of the thick shell of asbestos lined steel that makes this Kerosene Heater outstanding. More efficient—much faster! The adjustable wickless burner radiates heat on 315 inches of seamless copper coil, giving rapid circulation.

The insulated housing, adjustable burner, and bronze coil header make it extremely economical of fuel—so efficient that this heater can heat 20 gallons of water an hour (60 degree temperature rise) on just a pint of kerosene. Burns 20 hours on a single gallon of kerosene at a low flame. One gallon of kerosene will heat 143 gallons of water at a temperature rise of 60 degrees Fahrenheit. It stands 39 $\frac{3}{4}$  inches high on its own legs. The shell is a handsome crackle finish; other parts smoothly enameled.



For use with 30 to 40-gallon range boilers. Tapped for  $\frac{3}{4}$ -inch water connections. *Shipped from Stock in Baltimore or Albany.* Freight Rates on Page 2. For Wards Budget Plan of Monthly Payments, see Page 3.

181 HB 7813—Ship. wt. 55 lbs. . . . . \$18.25

### Storage Tank Water Heater

**\$32<sup>95</sup>**

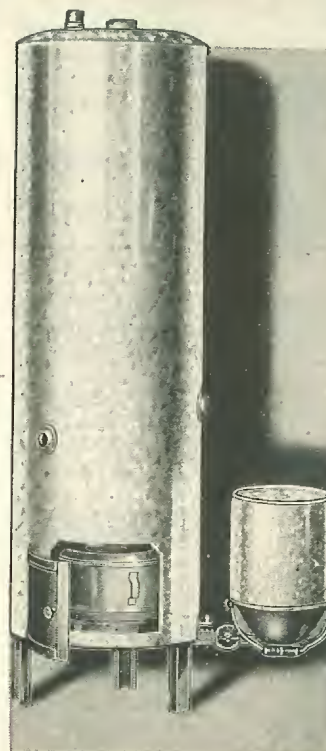
CASH PRICE

**\$4 DOWN  
\$5 A MONTH**

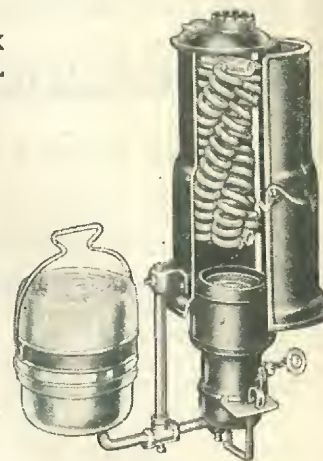
- 22-gallon tank is heavy gauge copper bearing steel—galvanized inside and out for trouble-free service.
- No range boiler needed.

You don't need a range boiler with this Kerosene Hot Water Heater! It's a heater and a storage tank in one. Heavily built throughout, this combination Water Heater and Storage Tank is made for the utmost economy in operation. The 22-gallon tank is tested to 300 lbs. pressure for 150 lbs. working pressure—a double safety factor.

Vaporizing chimney burner gives an intensely hot flame—heating more quickly and economizing on fuel. Heats over 15 gallons an hour (60 degree rise). One gallon of Kerosene will heat 170 gallons of water to a temperature rise of 60° Fahrenheit. Solidly mounted on three steel legs—height overall 55 inches. 1-gal. kerosene container is galvanized inside and out. *Shipped from Stock in Baltimore or Albany.* Freight Rates on Page 2. Budget Plan on Page 3.



181 HB 6675—Ship. wt. 115 lbs. . . . . \$32.95



**Clean, Smokeless  
\$14<sup>95</sup>**

- Simple to operate
- Attach to range boiler

Four  $\frac{3}{4}$ -inch seamless copper coils. One gallon of Kerosene will heat 113 gallons of water to a temperature rise of 60° Fahrenheit. It burns 20 hours on a single gallon of kerosene at a low flame. The new type adjustable burner uses kerosene vapor and burns with a hot blue flame. Height 22 inches. For use with 30-gal. range boiler. Has black japanned cast iron jacket. Tapped for  $\frac{3}{4}$ -inch iron pipe connections. Glass container holds 1 gallon of kerosene. Ship. wt. 48 lbs.

481 HB 7814 . . . . . \$14.95



# of a Faucet Whenever You Want it!

## WARDS FINEST GAS HEATER



**\$3275**  
CASH PRICE

**\$4 down**  
**\$5 A MONTH**

Consider these EXTRA QUALITY FEATURES and you'll know why this is the greatest Automatic Heater Wards have ever offered! Has adjustable Grayson Thermostat—water at any temperature between 80 and 165 degrees. Has central spiral flue that adds 300 square in. of heating surface—heats water quicker. The inner steel tank is tested for 300 lbs. pressure—copper bearing and twice as strong as necessary, giving added protection. The steel tank is covered with a full 1 1/2 inches of thick air cell asbestos—the finest insulating material known. Outside shell is heavy 9-gauge steel, finished in beige enamel with brown trim.

Endorsed by the American Gas Association—proof of dependability. It's made extra strong, extra dependable with every worthwhile feature that we could find. That's why this is Wards finest gas heater—even better than the one at the right.

Completely automatic and self-regulating—just turn on the gas, light the pilot, and forget about it. When the tank is full of hot water, the Thermostat turns the flame down low to save fuel—as water is withdrawn, the Thermostat turns on full flame assuring steaming hot water at every faucet at any hour of the day or night. Time-o-stat Safety Pilot immediately shuts off gas should pilot accidentally go out. Tapped for 1/2-inch gas connection and two 3/4-in. water connections. Burns natural or manufactured gas. Shipped from Stock in Baltimore or Albany. Freight Rates, Page 2. For Wards Budget Plan, see Page 3.

Article Number	Cap. Gals.	Diam. In.	Hgt. In.	Ship. Wt. Lbs.	Cash Price	Budget Plan Price
181 HB 6115	20	16 3/4	50 3/4	202	\$32.75	\$36.25
181 HB 6116	30	18 3/4	54 1/2	228	39.45	43.45
181 HB 6117	40	18 3/4	65	290	46.85	51.85

## AUTOMATIC GAS HEATER

• Fully approved by the American Gas Association  
• 1-inch thick rock wool insulation between inner and outer steel casings

**\$2895**  
CASH PRICE

**\$3 down**  
**\$5 A MONTH**

A big, full-sized, completely Automatic Gas Water Heater at a price made possible by Wards Mail Order economies. Heating capacity enough for the large home but so inexpensive to operate that it is practical for even the smallest family.

Light the pilot and you need never think of it again. A thermostat control maintains any desired temperature, automatically turning on or shutting off the gas as it is needed to heat water. You always have plenty of hot water for every purpose—for dishes, shaving or a bath. Yet because of the automatic control the cost of operation is little. A Safety Pilot Control automatically turns off the gas if the pilot is extinguished.

The 19-gallon inner tank is heavy copper-bearing steel, galvanized inside and out to prevent rusting. The large capacity burner covers the entire bottom of the tank with a hot, blue flame and the inch-thick rock wool insulation holds heat for a long time. The outer casing of steel is handsomely enameled Ivory with attractive black trim.

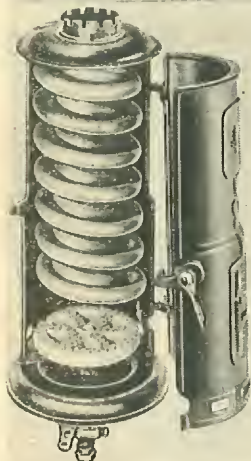
Two water connections are tapped for 3/4-inch iron pipe; the gas for 1/2-inch pipe. Burns natural or manufactured gas, but not gasoline. Shipped from Stock in Baltimore or Albany. Freight Rates on Page 2. For Wards Budget Plan of Monthly Payments, see Page 3.

181 HB 6711—19-gallon capacity. Diameter 15 inches. Height 57 inches. Ship. wt. 185 lbs. .... \$28.95

181 HB 6712—27-gallon capacity. Diameter 18 inches. Height 64 inches. Ship. wt. 260 lbs. .... \$34.95



## DEPENDABLE GAS COIL HEATER



**\$395** • Drip pan protects floor  
• Improved burner gives intense hot flame and complete combustion

Heavy cast iron jacket and tight-fitting door are handsomely black japanned. The heavy, seamless 3/4-inch copper coils heat water economically and quickly. You can have shaving water in just 10 minutes with this heater. Water connections are threaded for 3/4-in. iron pipe. The gas valve is tapped for 1/2-inch pipe. Approved by the American Gas Association. Will burn either natural or manufactured gas. Easily attached to Range boiler. Drip pan catches condensation and dirt. Small cost for ample supply of hot water for the average family.

### FOR 30-GALLON RANGE BOILERS

161 inches of seamless copper coils. Height overall 25 1/2 in. Ship. wt. 29 lbs. Mailable.

481 HB 7822—For use with Natural Gas. .... \$3.95

481 HB 7823—For use with Bottled Gas. .... 4.45

### FOR 40 AND 52-GALLON RANGE BOILERS

Same as above but extra heavy and has greater capacity. Have 209 inches of seamless copper coil. Height 27 in. Ship. wts. 41 and 35 lbs. Mailable.

481 HB 7818—For use with Natural Gas. .... \$5.65

481 HB 7817—For use with Bottled Gas. .... 6.15

## STORAGE GAS WATER HEATER



**\$1595**

**12-gal.**

• Heavy Gauge Steel tank tested to working pressure of 150 pounds and mounted on three steel legs

• Tank is galvanized inside and out to prevent rust  
Heats water quickly and economically. In ten minutes—enough hot water for the dishes. In 30 minutes—enough for the bath. The burner concentrates a hot blue flame on a special riser pipe so that water is heated quickly throughout the entire tank. No range boiler is needed, but 3/4-inch openings are provided to connect the heater

in line with the furnace or range boiler if you wish. The extra heavy galvanized steel tank is tested to 150 pounds pressure and mounted on strong steel legs of a convenient height. The heater burns either natural or manufactured gas but will not burn gasoline. State Size. For Freight Rates, see Page 2. For Wards Budget Plan, see Page 3.

Article Number	Capacity Gallons	Ship. Wt. Lbs.	Diameter Inches	Height with Stand	Cash Price
	12	73	12	3 ft.	\$15.95
181 HB 6743	17	86	12	4 ft.	16.95
	25	123	14	4 ft.	17.95

Plenty of Hot Water  
at Very Little Cost

**\$575**



Sizes to Heat  
Water for  
Every Home

## Big Capacity COALTANK HEATERS

- Burns hard, soft, pea coal or coke
- Cast iron painted green, roomy firepot
- Self-cleaning rocking grates

Heaters except 281 HB 8003 and 281 HB 8004 are lined with firebrick. This is important in the small heater. All heaters furnished without bottoms to ashpit. Cannot be used on a wood floor. Larger sizes, 281 HB 8003 and 281 HB 8004 may also be used to heat an extra room or garage. For particulars send dimensions of space to be heated, type of construction, and size of windows to Wards Engineering Service Dept. Heaters 181 HB 8000 and 181 HB 8001 Shipped from Stock, others from Factory near Philadelphia. Freight Rates Page 2.

Article Number	Cap. Gals. Per Hour 25° Temp. Rise	No. of Families Will Supply	Diam. Grate In.	Size Smoke Pipe	Size Inlet and Outlet	Ship. Wt. Lbs.	Overall Height In.	Cash Price
181 HB 8000	40	1	10	5 in.	1 in.	105	19 1/2	\$ 5.75
181 HB 8001	82	3	10	5 in.	1 in.	132	25 1/2	8.45
281 HB 8002	150	5	10	5 in.	2 in.	170	28	12.95
281 HB 8003	250	6	12	6 in.	2 in.	268	30	15.95
281 HB 8004	350	10	12	6 in.	2 in.	300	34	18.95



# PRESSURE-TESTED RANGE BOILERS Galvanized Inside and Outside

It's Clean Water You Want . . . as Well as Hot Water!

**\$6.95**

Without  
Fittings

Hot water will be clean, and rust-free if it comes from one of these range boilers because they're hot-dip galvanized inside and out. The Boiler pictured at the right is electrically welded—the one at the left is both electrically welded and riveted for even greater strength and longer life. Standard weight boilers are pressure tested to 150 pounds for 85 pounds working pressure, the extra heavy weight to 250 pounds for 150 pounds working pressure. Boilers with fittings include stand, cold water tube and four 1-in. couplings. Tapped for 3/4-in. pipe. *State Size. Shipped from Stock in Baltimore or Albany.* Freight Rates under Range Boilers on Page 2.

**\$6.25**

Without  
Fittings

Sizes			Electric Welded and Riveted				Electric Welded			
Cap. Gallons	Diam. Inches	Height Inches	Boiler Only No Fittings 181 HB 6735		Boiler With Fittings 181 HB 6736		Boiler Only No Fittings 181 HB 6707		Boiler With Fittings 181 HB 6719	
			Ship. Wt.	Price	Ship. Wt.	Price	Ship. Wt.	Price	Ship. Wt.	Price
30	12	60	80	\$ 6.95	91	\$ 8.95	65	\$ 6.25	76	\$ 8.25
40	14	60	105	9.65	116	11.65	90	9.15	101	11.15
52	16	60	130	14.75	163	17.85	105	13.75	138	16.85

## Extra Heavy Range Boilers—Tested to 250 Pounds Pressure

When the pressure in your hot water system is consistently more than 85 pounds actual working pressure, we recommend the heavy boilers listed below. *Be sure to state the size you wish.*

Sizes			Electric Welded and Riveted				Electric Welded			
Cap. Gallons	Diam. Inches	Height Inches	Boiler Only No Fittings 181 HB 6747		Boiler With Fittings 181 HB 6748		Boiler Only No Fittings 181 HB 6708		Boiler With Fittings 181 HB 6728	
			Ship. Weight	Price	Ship. Weight	Price	Ship. Weight	Price	Ship. Weight	Price
30	12	60	85	\$ 8.45	96	\$10.45	85	\$ 7.95	96	\$ 9.95
40	14	60	105	11.45	116	13.45	105	10.70	111	12.70
52	16	60	130	17.95	163	20.95	125	16.45	158	19.55

## EVERDUR RANGE BOILER

Rustproof—Leakproof

**\$28.95** **\$3 DOWN**  
CASH PRICE Balance Monthly

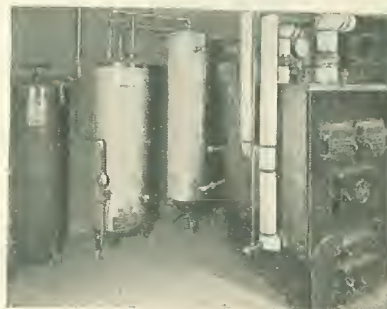
Plenty of clean hot water . . . for bath, kitchen and laundry . . . when it comes from a rust-proof tank of welded EVERDUR.

Made of a rust-proof alloy of copper, silicon and manganese that combines the corrosion resistance of copper with the strength of steel. Tinned on inside.

**Most Economical in Long Run**  
Isn't it worth a few dollars more to install an EVERDUR range boiler and be able to completely forget it while it goes on giving the best of service year after year? There are no rust weakened tanks to be replaced with attendant expense, no rust colored water to worry about.

Our low price means the EVERDUR is the most economical range boiler in the long run. The sturdy EVERDUR tank is tested to withstand 200 pounds pressure. 85 pounds working pressure. Tapped for 1 in. pipe. Height 60 inches. Diameter 12 in. Capacity 30 gallons. For BUDGET PLAN See Page 3.

Shipped from Stock in Baltimore or Albany.  
181 HB 6752—Boiler with couplings and cold water tube. Ship. wt. 75 lbs. . . . . \$28.95  
181 HB 6755—Boiler Complete with stand, couplings and cold water tube. Ship. wt. 85 lbs. . . . . \$29.45



An actual photograph of a typical Ward installation in a house in Glen Ellyn, Ill. A Wards hot water boiler, a Wards water softener, a Wards automatic water heater and an auxiliary water storage tank. An efficient, substantial set-up that is delivering the owner a world of trouble-free service and comfort. And he made a mighty satisfactory saving on each unit.

See Page 2 for Low  
Freight Rates on Range Boilers

Figure freight charges from table on Page 2 giving rate per 100 pounds for various merchandise for various distances.

## RANGE BOILER with JACKET

30-Gallon **\$9.85**  
Size Complete

Saves Fuel—Saves Money

It doesn't take the asbestos insulated range boiler long to pay for its cost with the fuel that it saves. This fuel saving is accomplished by the heavy 3/4-inch thick air cell asbestos jacket. The dead air cells in the jacket itself form a most efficient type of insulation. It holds the heat in the tank where it belongs. The water does not cool so rapidly and requires less fuel to keep it hot. Three brass draw bands and 2 pounds of asbestos cement for covering top of tank are furnished.

**Tank Is Pressure Tested**

The heavy gauge steel tank is electrically welded at all seams and galvanized inside and out to prevent rust. Tested up to 150 lbs. pressure; 85 lbs. normal working pressure.

Take advantage of Wards BUDGET PLAN of Monthly Payments if you wish. See Page 3. Shipped from Stock.

181 HB 7011—30-Gallon Boiler with Stand, Four 3/4 in. couplings and asbestos jacket. Ship. wt. 95 lbs. . . . . \$9.85  
181 HB 7010—30-Gallon Boiler and jacket, but without Stand and Fittings. Ship. wt. 84 lbs. . . . . \$7.85

## FITTINGS for RANGE BOILERS quick service



**\$1.98**

30-Gal.  
Size

for itself in the fuel that it saves. Easy to install. Three brass draw bands and 2 lbs. of asbestos cement to cover the top of the boiler are furnished. *Mailable.*

481 HB 7012—For any 30 gallon, 12 by 60-inch boiler. Ship. wt. 23 lbs. Complete. . . . . \$1.98

481 HB 7013—For any 40 gallon, 14 by 60-inch boiler. Ship. wt. 25 lbs. Complete. . . . . \$2.25



Boiler  
Relief  
Valve

**\$1.85**

For water heaters and range boilers. Required by some States as a safety measure. Solid brass.

Threaded for 1/2-inch iron pipe. Shipping weight 2 pounds. *Mailable.*

81 HB 7924 . . . . . \$1.85



Boiler Unions  
**33c**

Standard galvanized iron, 1-in. size. Tapped for 3/4-inch pipe connections. 1/2-in. inside for cold water tube. Ship. wt. 1 lb. 4 oz. 81 HB 5340—Straight. . . . . Ea. 33c  
81 HB 5341—Bent. . . . . Ea. 38c



Drain Valve

**29c**

Brass. Rough nickel-plated. For 1/2-in. pipe. Ship. wt. 1 lb. *Mailable.*  
81 HB 5431 . . . . . 29c



Cast Iron  
Boiler  
Stand

**40c**

For 30 and 40 gallon range boilers. Sturdy cast iron. Height 12 in. Shipping weight 5 lbs. *Mailable.*  
481 HB 6730. . . . . 40c

For 52 gallon boiler. Height 18 in. Ship. wt. 6 lbs. *Mailable.*  
481 HB 6722. . . . . 75c

Pressure  
Relief  
Valve

**\$3.75**

Automatically relieves pressure from overheating. For Range boilers and water heaters. Gives positive protection. No springs, levers or complicated parts. Listed by Underwriters' Laboratories, Inc. Relief valve can be set at 30, 55, 80, 105 or 130 lbs. Easily installed. Directions furnished. *Mailable.*

81 HB 5415—Ship. wt. 7 lbs. . . . . \$3.75



# CLEAR..SOFT WATER

## ...no matter where you live!

The hardest water becomes velvety smooth—soft as rainwater after passing through Wards Softener. The mineral inside absorbs all the irritating hardness. No chemical is added. Nothing to wear out. The entire cost of operation is the price of a few pounds of salt used occasionally for flushing.

**\$48<sup>45</sup>**



### For DISHWASHING—

With soft water the task of dishwashing is lightened. Less soap is required, and no hand roughening chemicals are necessary. China and glassware sparkle; and silverware is easily polished. No greasy residue to wipe off.



### For LAUNDERING—

Only a fraction of the usual amount of soap is necessary with soft water. It forms instantaneous suds that clean. Fine silks and fabrics last longer and retain their luster and original colors. Leaves no soap curds in fabric.



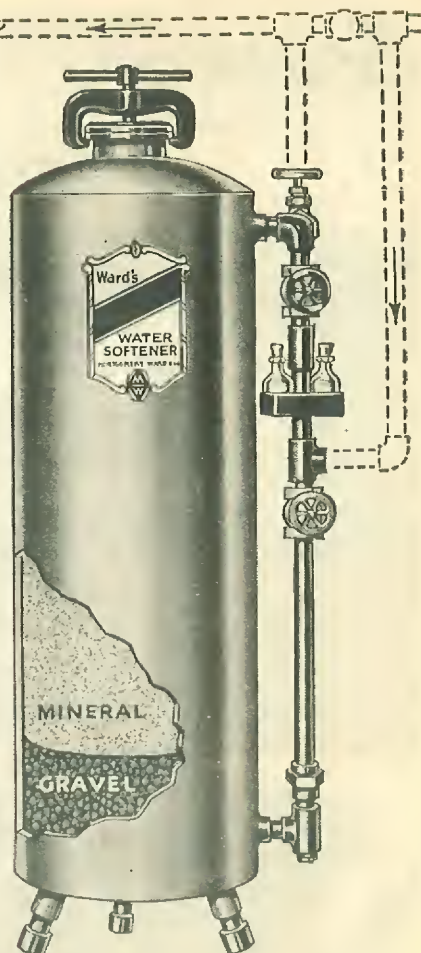
### For COOKING—

Soft water is far superior as there are no harsh minerals to destroy the natural food flavors. Prevents lime scale in teakettles and other cooking utensils. It gives a greatly improved flavor to coffee and tea.



### In the BATHROOM—

It gives you the genuine comfort of a real soft water bath. The soap provides a creamy lather for shaving and shampooing. It leaves the hair soft and silky and helps retain the natural beauty of the skin.



### IMPORTANT

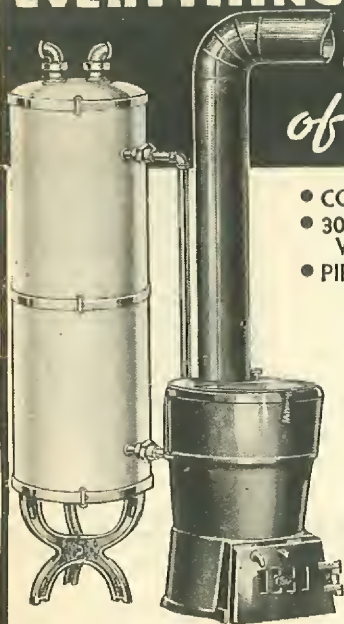
You may be using hard water without knowing it—use soft water once and you'll wonder how you've ever done without it. Let us know the degree of hardness of the water in your locality. Your State Dept. of Health will give you this information. If not send us a sample of the water, then we can recommend the proper softener. Tell us also the approximate amount of water you use.

## Tank Tested to 100 Pounds Pressure

Built to last a lifetime. Heavy tank is 10 gauge steel for the two smaller sizes and 8 gauge steel for larger sizes. All seams are welded. Your choice of a tank that is porcelain enamel lined inside only, or a tank that is galvanized both inside and out. Both tanks are finished outside with an attractive spring Green auto enamel paint trimmed in jet black. If hardness of water is 20 grains (see left) the 20,000 grain size will soften 1000 gallons before salt water flushing (which you can easily do yourself) is necessary. Instructions included. For use only where water pressure is available. Budget Plan on Page 3. Shipped from Stock in Chicago, Ill. For Freight Rates See Water Softeners on Page 2.

Cap. Grains	Tank Size, In.	Ship. Wt. Lbs.	Article Number	Porc. Enam. Inside Only	Article Number	Galv. In- side and Out
20,000	12 by 48	310	181 HB 8278	\$67.95	181 HB 8275	\$48.45
40,000	16 by 48	475	181 HB 8279	86.25	181 HB 8276	72.45
60,000	18 by 48	650	181 HB 8280	115.00	181 HB 8277	92.50

## EVERYTHING YOU NEED for a Plentiful Supply of HOT WATER



- COAL BURNING TANK HEATER
- 30 GALLON RANGE BOILER With Insulating Jacket and Stand
- PIPE and FITTINGS as Follows:

8 feet of 1-inch Galvanized Pipe.  
Four 1-inch Galvanized Elbows  
Two 1-inch Galvanized Unions  
Three 1-inch Galvanized Nipples  
Two 3/4-inch Galvanized Boiler Supply Fittings  
One 1/2-inch Cold Water Tube  
8 feet of 5-inch Smokepipe  
One 5-inch Elbow  
One 1/2-inch Boiler Drain Valve  
One 1x1/2-inch Galvanized Bushing.

for Only **\$17<sup>50</sup>**

This economical Outfit solves your hot water problem for all times. The 70-gallon capacity tank heater furnishes ample supply of hot water for a large family for about a bucket full of coal per day. Used with the 30-gallon insulated storage Range Boiler it assures you of an ample supply of steaming hot water for bathing, laundering, dishwashing and all household needs. It comes complete with 8 feet of smokepipe and one elbow, range boiler stand, and all necessary pipe and fittings for the ordinary connection of the heater to boiler—all at this one low price. Instructions for installing included in detail on Page 33. The 30-gallon range boiler is galvanized inside and out and is furnished with three-quarter inch thick air cell asbestos jacket which keeps water in the tank hot for a longer period of time—it is our number 181 HB 7011 fully described on Page 34. Shipped from Stock.

181 HB 7009—Ship. wt. complete 260 lbs. ....\$17.50

## Wards Tank Heater REGULATOR



**\$3<sup>25</sup>** Complete

With Wards Regulator on your coal tank heater you are assured of hot water instantly whenever you want it... any hour... day or night. Automatic, trouble-proof and simple in operation. This regulator eliminates the constant attention, the drudgery and the uncertainty of hand operation.

The picture at the left shows Wards Regulator installed on an ordinary coal heater. The regulator is on the tee connection between the heater and the range boiler, and a length of chain is provided to reach down to the draft door of the heater. The regulator arm opens or closes the draft automatically, whenever necessary, to maintain a uniform temperature of water.

By eliminating useless overheating, Wards regulator saves on fuel. It is often necessary to tend the heater only once every 24 hours unless there is an unusually large amount of hot water used. Insures CLEAN HOT WATER. The regulator prevents boiling which precipitates minerals in the water.

The weight on the lever arm can be adjusted to maintain any desired temperature of water. Regulator is of ground steel, complete with chain and hook, ready to install. Instructions included. Threaded for 3/4-in. connection. Ship. wt. 6 lbs.

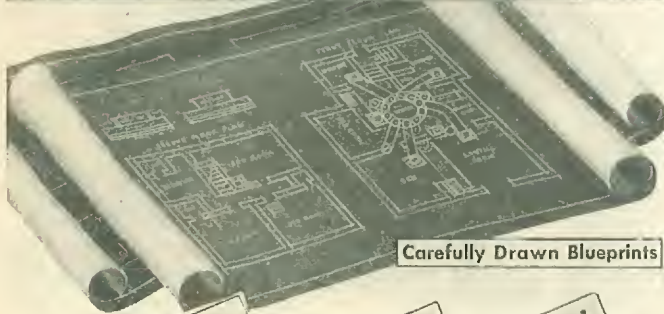
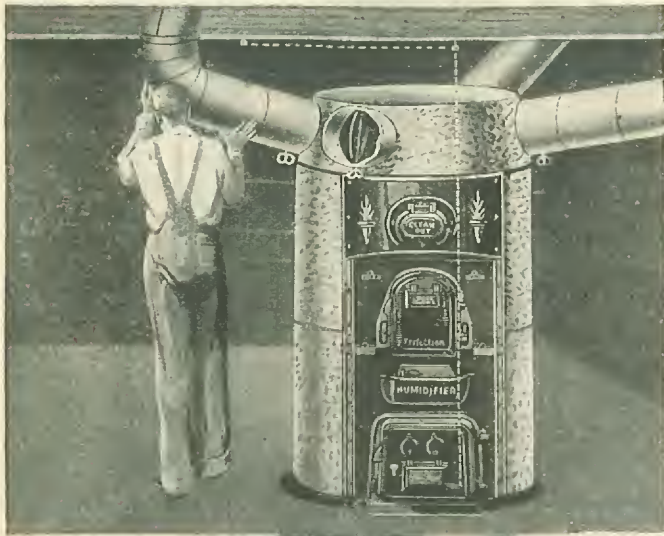
81 HB 7857—Shipped from Stock .....\$3.25

### NO NEED TO WAIT—USE WARDS BUDGET PLAN

You know... by experience... that Wards prices are right. Nowhere can you buy quality merchandise at lower prices. And nowhere can you find a more reasonable plan of budgeted Monthly Payments than Wards offer. It permits you to buy now... pay as you use and enjoy your merchandise. See Page 3 for complete details.



# Save 20% to 40% by Installing Your Own Heating System



## Wards Engineers Will Help You

Charles Annis of Hymera, Indiana, figures Wards Engineering Service saved him \$199 on his furnace. Another concern quoted \$275 for a pipeless furnace, installed. Mr. Annis bought a Wards Pipeless for \$76, and from instructions we provided, made the installation himself.

Wards Engineering Department will give YOU the same practical help in cutting labor costs. We maintain a staff of keen, experienced engineers, at your service to give you any help you require in selecting, planning and installing your heating plant.

They will analyze your heating needs and tell you exactly what size furnace will do the best job for your home. And they will give you a FREE estimate of its cost.

When you order, they will lay out the entire plant for you. If you propose to do the work of installation yourself, they will provide you with whatever instructions are needed to enable you to do the job easily and well—a complete set of blue prints—simple, fully illustrated instructions—and any additional helps you need. The practicability of these instructions is proved by the hundreds of Wards customers who, without previous experience or more than ordinary deftness with tools, install their entire heating plants quickly, easily and satisfactorily.

## Wards Will Estimate Your Heating Requirements and Quote You Exact Prices FREE

Let us quote you an estimate of the cost of your new heating plant. We make it particularly easy for you to secure this service. The Heating Information Blank No. 12681-3, when filled out, gives us all the facts we need to make a scientific and accurate analysis of your heating needs—exactly the same that you would secure should you hire a high priced heating engineer to look over your home and advise you on what type of furnace to buy.

Read the questions asked in Wards Heating Information Blank closely. Fill them in fully and as accurately as possible. Make measurements with extreme care. From this information we will quote your costs, determine what size furnace you require, and when you are ready to buy, draw up your blue prints and fill your order. Your care now will insure your complete satisfaction in your heating plant when it is installed.



## Read What Others Say About Wards Heating Plants

I have been intending to tell you how nice my furnace is working. It cost us only \$15 for coal so far this winter. I estimate it has saved us \$80 in fuel since I installed it, Jan., 1932. We have had 100% better heat and there is not a place in the house that it fails to keep comfortable even in zero weather.

J. J. ERVIN,  
Weston, W. Va.

We bought a Pipe Furnace from you last fall and we are very well pleased with it. We installed it ourselves and found it very simple—just followed your instructions. It is a very well built furnace and keeps our house warm easily and evenly. Yours is the very best furnace for a large house.

C. K. DICK,  
Frazer, Mont.

I am very much satisfied with my hot water heating plant, and also with your courtesy and generous dealing with me. I installed the plant from your blue prints, doing all the work myself without any difficulty at all. And in spite of the fact that I am not a steam fitter, it works O.K.

GEORGE W. BURNETT,  
Endicott, N.Y.

We think a lot of our Wards Pipeless Furnace. It is heating five rooms easily and our fuel cost is cut in half. I feel I made a good investment when I bought from Wards. Another company wanted \$275 to install their furnace in my home. I got Wards for \$76, and installed it myself, saving almost \$200.

CHARLES ANNIS,  
Hymera, Indiana



# WARDS WARM AIR PIPE FURNACE

**T**HE principal advantages of a pipe furnace are the almost instant heat it gives when a fire is started, the ventilation provided from constant air circulation, and the register adjustments which make it possible to control the temperature in each room individually.

When air is heated it expands and becomes lighter than the cold air surrounding it. This principle is well illustrated by the warm air balloons sent up on the 4th of July. In these the warm air is imprisoned in the paper balloon, and in rising carries the balloon with it.

## A Constant Circulation of Heated Air

A pipe furnace consists of an efficient heater surrounded by a closed casing of sheet steel. From the top of the casing, pipes are taken to registers in the different rooms of the house. Return, or cold air pipes are connected with registers in the floor of one or two downstairs rooms and lead to the bottom of the furnace casing.

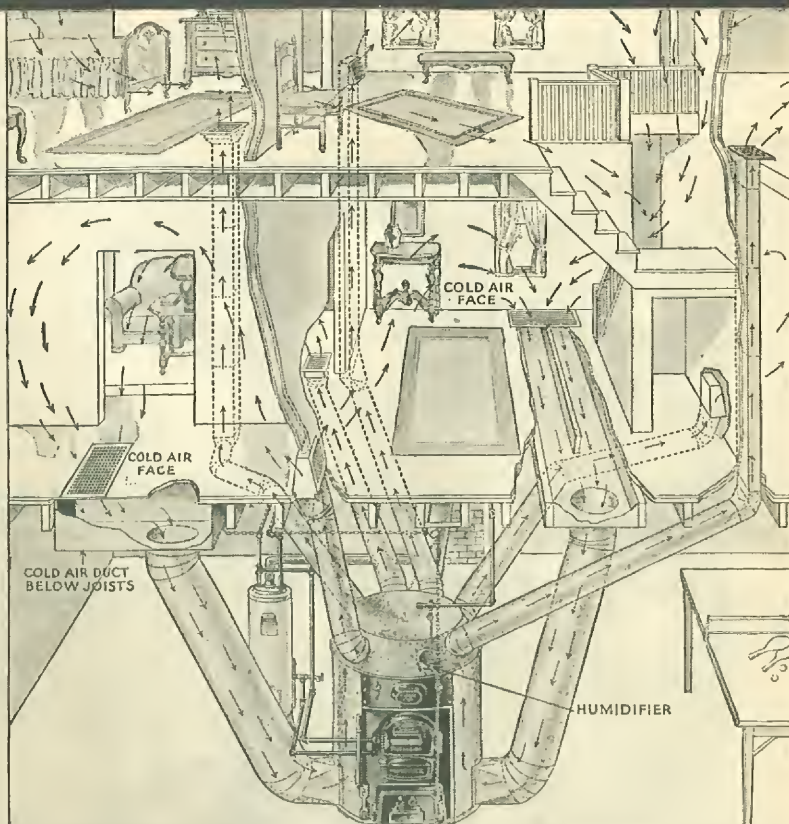
When a fire is built in the furnace, air in the casing is heated and rises through the warm air pipes to the rooms, being replaced by the cold air which enters the casing through the cold air return pipes. This circulation provides for healthful ventilation in every room.

## Healthful Moist Heat All Winter Long

Every Wards furnace is equipped with a built-in water pan. As air circulates through the system it absorbs moisture from the pan and overcomes much of the excessive dryness that is always caused when cold outside air is raised to 70 degrees. In the installation shown at the right an additional humidifier has been installed in the top of the casing. This will moisten the air still more, and is particularly desirable in climates where the winters are severe.

In this installation an automatic heater is connected to the boiler to supply domestic hot water. Since the burner in the heater operates only when the furnace is not in use, this hook-up combines the economy of a furnace coil with the convenience of an automatic system.

The cost of a complete installation is much less than you would expect, especially when the materials are purchased from Wards by mail. Buy on Wards Budget Plan if you wish, See Page 3.



# WARDS WARM AIR PIPELESS FURNACE

**A** PIPELESS furnace combines the instant heat and good ventilation of a pipe system with extreme simplicity and economy. It is particularly suited for a small home with large, open doorways between the rooms.

A pipeless furnace operates on the same principle of ascending warm air as a pipe furnace, with this difference: circulation to and from one centrally located register is used to heat the entire home.

## The Simplest of All to Install

A pipeless furnace has the same efficient heater used in a pipe furnace, but is surrounded by a double casing. This casing is so arranged that heated air from the stove can rise through the register *inside* of the ring, while cold air from the home can descend to the bottom of the casing (and thence up past the stove to be heated) through the openings in the register *outside* of the ring. If you study the arrows in the installation shown here, you will see that the warm air rises and is carried all through the house. As it cools it will settle to the floor and down through the outside portion of the register where it is again heated and circulated through the home.

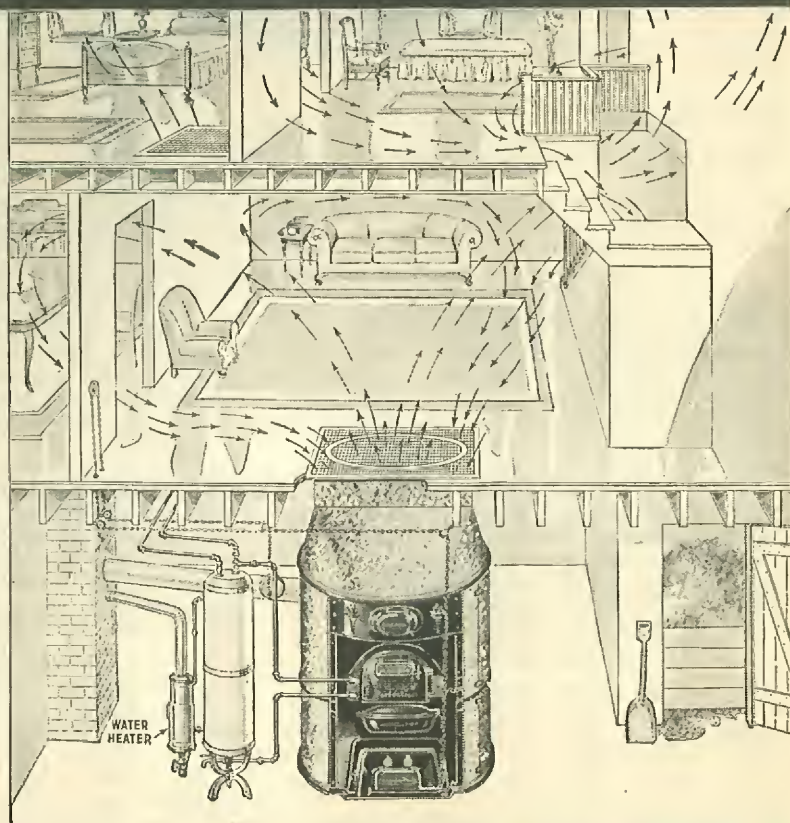
## Has All the Famous Ward Features

A Ward Pipeless Furnace is built of exactly the same high quality materials as the Ward Pipe Furnace. As a matter of fact, the furnace proper, or heater, is exactly the same in both. The casing is the only difference.

Careful attention has been given to all details of construction, assuring gas-tight joints which will prevent dust or gas from escaping into the circulating air.

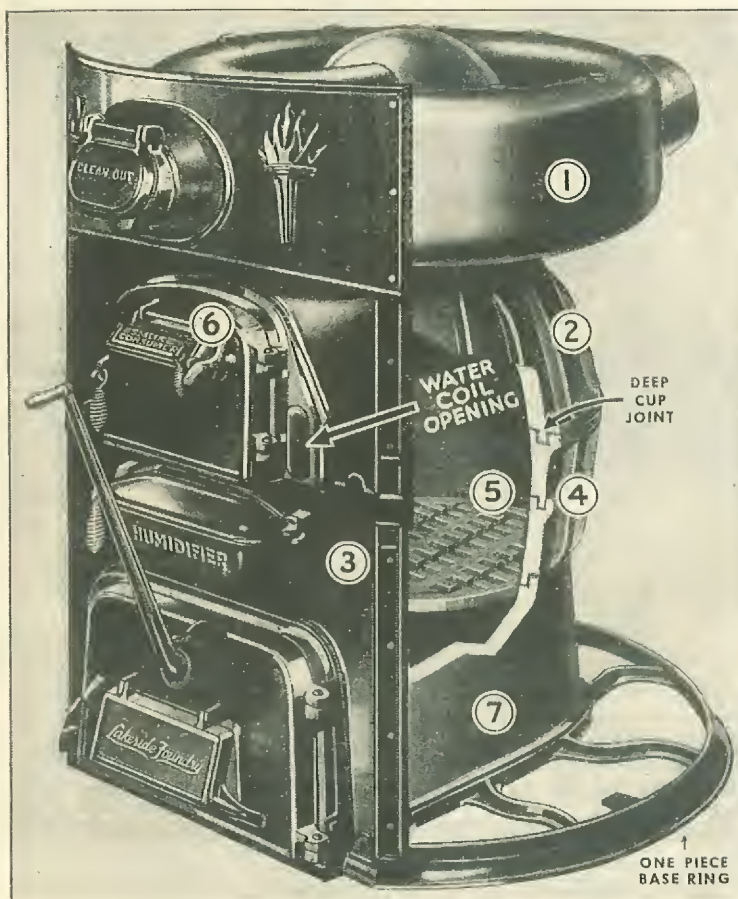
Either system, when installed as described in our instruction books, will give an abundance of clean, healthful heat. The difference in cost lies only in the fact that a pipe furnace is equipped with pipes leading to each room.

In this installation an insulated range boiler has been connected to the furnace and equipped with an auxiliary heater which may burn either oil or gas. This arrangement enables you to have plenty of hot water both in and out of the furnace heating season.





# "Show 'em the Inside" said One of Our Engineers "Then They'll Know Why Wards De Luxe HAS GREATER HEATING CAPACITY"



Look at that husky fire-box; that massive, 1-piece radiator, the extra weight, thickness and other features that will stand up under years of heavy firing.

## ① ONE-PIECE RADIATOR

We've made it of massive size... extra large and very deep... to expose the greatest possible heating surface to the air. Being of cast iron it holds the heat for a long time. Its one-piece construction prevents any gases escaping and becoming mixed with the air you breathe.

## ② COMBUSTION CHAMBER

Here's the "heart" of the furnace... and the massive combustion Chamber of the De Luxe provides abundant space in which the fuel gases may be completely burned and the heat units used to heat your home—instead of being wasted in the form of soot and smoke.

## ③ SLIP-ON FRONT

It's as easy as rolling off a log to slip this front into place. No bolts or cement needed... yet no dust from the cellar... no smoke nor gas from the fire can get into the warm air pipes at any time. It's movable too, to eliminate cracking caused by heat expansion.

## ④ TWO-PIECE FIREPOT

The fire pot of the De Luxe is heavily ribbed to add strength and radiating surface. Smooth inside to promote clean fire and easy elimination of ashes. It provides an extra large heating surface because there is only two inches difference in the diameters of the top and bottom.

## ⑤ TRIANGULAR GRATES

Regarded by many as the most durable type. The bars are especially heavy yet are easy to shake. As they revolve practically all clinkers are broken. Grates are easily removed for cleaning by releasing two easily accessible catches at front.

## ⑥ SMOKE CONSUMER

It acts somewhat like a set of "lungs" for the De Luxe... it actually "breathes" a blast of fresh air over the hot coals and causes a secondary combustion of the volatile gases. This action reduces smoke, increases heating efficiency and burns the gases that otherwise would be wasted.

## ⑦ LARGE ASHPIT

Removing ashes isn't much of a job anymore if you own a De Luxe. The one-piece ashpit extends through the front and has a large door for the easy removal of ashes. Surface ground door and frame are fitted paper tight to eliminate excessive drafts. It's extra deep, too.

## ⑧ WAIST HIGH SHAKER

Throw away your gas mask when you shake the De Luxe. No bother, no mess, no dust... you don't even open the door. Remember the old type? You opened the door, knelt down, used an awkward hand crank and held your breath or almost choked from the dust.

## ⑨ ONE-PIECE BASE

Like the Rock of Gibraltar, this single massive casting, combining ash pit bottom and base ring, forms a firm solid foundation without joints and provides a permanent base. The ash pit bottom slopes up at the front and permits watering the ashes.

## ⑩ SAFETY CLEANOUT

The radiator casting extends through the front and forms a gas and dust-tight joint. A gravity door at cleanout opening eliminates the necessity of removing the bolts found on most types of furnaces. And the wide opening makes cleaning easy.

## Size for Size— Wards De Luxe Will Heat More Rooms

And here's the most important news of all. According to the Standard Code (the yardstick of the warm air heating industry)... the heating capacity of the Wards De Luxe is so much greater than most any other make that, for example, our 20-inch firepot size will heat a home that would ordinarily require a 22-inch firepot. And that's true in all four of the most popular sizes. There are a lot of other features too—particularly the castings. We just wish you could feel their thickness and weight. They're far heavier and thicker than most; that's mighty important because extra weight and thick-

ness mean years added to the life of the furnace. The castings are smooth too... When you run your hand down the inside you'll notice how smooth it feels and how tight the deep cup joints fit... no gas is going to escape through them and contaminate the air you breathe. The feed door is oversize to permit easy firing. There are two water coil openings so you can connect your hot water heater on either side without using a lot of extra pipe. The built-in humidifier is higher in the back so that the overflow spills outside the furnace instead of inside.

## SEE FOR YOURSELF HOW THE Wards De Luxe FURNACE EXCELS

For any fair comparison of furnaces the two most important features to consider are the Actual Weight and Furnace Capacity rated in accordance with the Standard Code, the official heating guide of the Warm Air Heating industry. Extra weight and thickness increase the life of the furnace.

### Square Inch Furnace Ratings

Size Fire Pot	Ward's De Luxe	Five Other Leading Furnaces				
		A	B	C	D	E
18 inch	360	322	...	341	280	320
20 inch	445	402	405	420	360	401
22 inch	539	498	492	502	480	478
24 inch	645	582	578	591	590	552
26 inch	698	695	689	694	...	653
28 inch	746	...	794	...	...	...

### Furnace Weights (Pounds)

Size Fire Pot	Ward's De Luxe	Five Other Leading Furnaces				
		A	B	C	D	E
18 inch	903	900	...	861	769	875
20 inch	1070	1020	1015	977	1050	1025
22 inch	1263	1170	1150	1093	1168	1145
24 inch	1472	1325	1310	1208	1314	1273
26 inch	1544	1600	1585	1385	1579	1482
28 inch	1927	...	1770	...	...	...

For Budget Plan See Page 3

## Wards De Luxe HEATING GUARANTEE

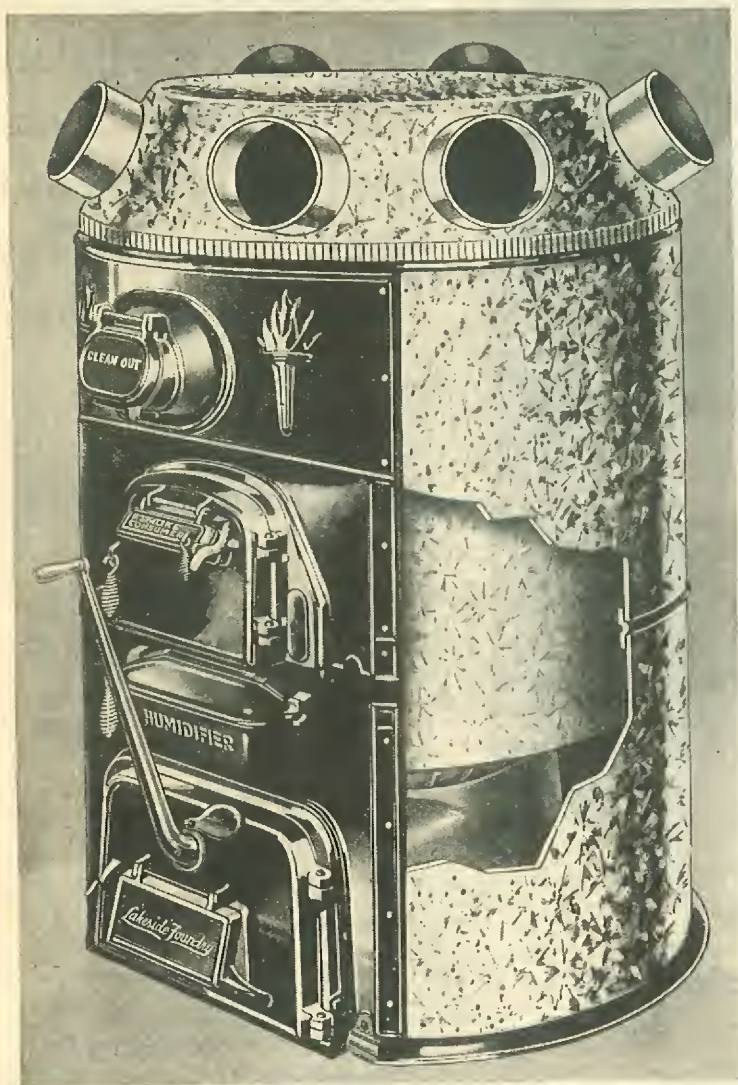
**WEGUARANTEE** Wards De Luxe Furnace sold by us to be free from defects in material and workmanship, and to give satisfactory service when installed and used according to our instructions.

We further guarantee, upon request and without charge, to make adjustments and repairs to said system which become necessary, or replace any parts found defective in manufacture, during the first year after purchase is made, where said adjustments, repairs, or replacements are required through any fault of Montgomery Ward.

MONTGOMERY WARD



# THIS FURNACE PLAYS NO FAVORITES Every Room Gets an Abundance of Heat with *Wards De Luxe* PIPE FURNACE



**\$48<sup>95</sup>**  
CASH  
PRICE

**\$5 DOWN**

**\$5 A MONTH**

SEE PAGE 3

Impartial comparison of the Wards De Luxe Pipe Furnace with other well-known makes revealed this startling fact: Our furnace had a greater heating capacity—Our furnace was heavier—better able to stand hard use. And finally, *our furnace was lower priced!*

Heat can't escape from a Wards De Luxe. A double galvanized casing seals it inside, forces a strong warm current into every room in the house. The short inner-casing allows plenty of room for clean, fresh air to pour in from cold air ducts. Before it is heated and swept into the rooms, it absorbs healthful moisture from the built-in water pan.

## Plenty of Moist Heat

The Wards De Luxe Pipe furnace is made in five sizes to heat homes or other buildings with 4 to 11 rooms. Notice the cut away view on the opposite page. Turn to Page 37 and read how an efficient warm air system operates. Then decide to bring your family the healthful comfort of clean, abundant moist heat. Five dollars down and a few dollars a month is a small price to pay for cold-weather comfort. See Page 3.

Complete with casings, bonnet without collars, cement, check draft, regulating dial with chain, pulleys, etc. and instructions for installing and operating. Top or bonnet furnished without collars or holes for pipes, so that you can arrange for pipe connections to fit your needs. Water coils, smokepipe, elbows, dampers and collars are extra equipment, they're shown on Pages 44, 45 and 49.

## Whether You Have 4 Rooms or 11—Here's a Wards Furnace to Meet Your Needs

Article Number	Diam. Fire-pot Inches	Depth Fire-pot Inches	Size Casing		Size Feed Door Opening In.	Diam. Smoke Pipe Inches	Will Heat No. of Rooms	Capacity Pipe Area Sq. In.	Approx. Ship. Wt. Pounds	Cash Price	Budget Plan Price
			Height Inches	Diam. Inches							
181 HB 2218	18	10	56½	38	10 x 11½	8	4 to 6	360	903	\$48.95	\$53.95
181 HB 2220	20	10½	60¼	42	10½ x 12½	8	5 to 7	445	1070	58.50	64.00
181 HB 2222	22	11	65¼	46	11 x 13½	9	6 to 8	539	1263	70.75	78.25
181 HB 2224	24	12	70	50	11 x 13½	9	7 to 9	645	1472	82.45	90.95
181 HB 2226	26	12	71	54	11½ x 13½	9	8 to 10	698	1544	97.50	107.00

### Extra Large Size Wards Standard Pipe Furnace

Same construction as above except standard bolted front in place of slip-on front and bolted base in place of one piece base.

181 HB 1428	28	12	66½	59	10¾ x 19	10	9 to 11	746	1827	\$112.00	\$123.50
-------------	----	----	-----	----	----------	----	---------	-----	------	----------	----------

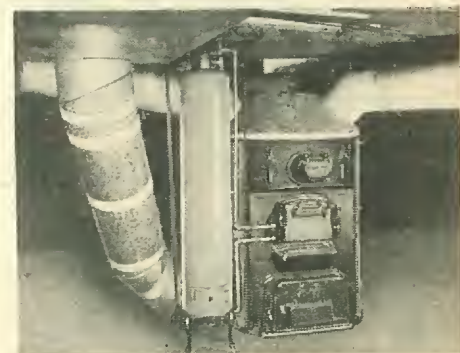
All above Furnaces shipped promptly from Stock in Baltimore or Albany or Warehouse near Birmingham, Alabama. Estimated Freight Charges on Page 2.

## We Furnish Blue Prints-Floor Plans-Everything So You Can Set It Up Yourself

Wards Engineering Service Department will furnish you complete information for making your installation. To estimate your heating requirements we must know the space to be heated. A convenient Heating Information Blank is enclosed. See Page 36. Fill in all the infor-

mation asked for in this form.

When you return it to us, we will give you a free estimate of cost. Then, when we receive your order, we will make up a set of blue prints showing how to make the installation. There is no charge for this service.



Here is an actual photograph of a Wards De Luxe Furnace as installed in the 2-story house of Mr. Peter Ahnen at 4922 Byron St., Chicago, Ill. The furnace was put in shortly before a recent spell of zero weather and Mr. Ahnen reports that it delivered "plenty of heat," keeping the entire house comfortable.



# BUILT LIKE A BATTLESHIP

Gas-tight, boiler plate steel body. Extra heavy. Cold riveted, electrically welded.

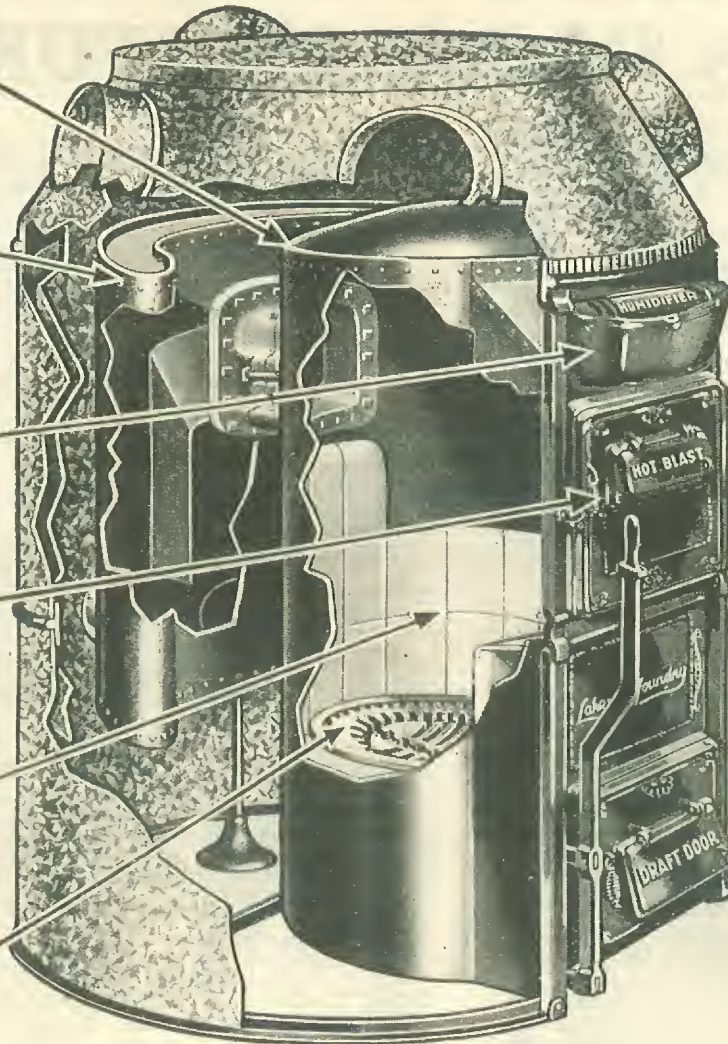
Extra heavy, 12-gauge steel radiator, cold riveted, electrically welded.

Large capacity Humidifier, high up for efficient evaporation.

Double Feed Doors. Extra Large. Take extra big blocks of wood or coal.

Firepot lined with Cupola Fire Brick to withstand tremendous heat. Third row in back protects body.

Easily operated Duplex Grates. For all kinds of solid domestic fuel.



Boiler plate Steel, riveted and welded to prevent soot, dust and fumes from escaping into your home. Ideal for Gas and Oil Burners

**Wards  
STEEL FURNACE**

**\$72.00**  
CASH PRICE

**\$7 down**

**\$7 A MONTH**

See Budget Plan, Page 3.

## Modern—Efficient—Economical

You'll be impressed with the outstanding qualities of this Wards Steel Furnace. The entire inside—shape, materials and construction—is radically different from ordinary types of furnaces. It represents new design at almost every point in the construction. Note how the combustion chamber and radiator are riveted and welded into one solid unit as sturdy as a battleship. It's rigid and strong—built for many years of service and heating comfort. The seams are so tight no fumes, gases, soot or dust can escape into the house and become mixed with the air you breathe.

Notice also the heavy Cupola fire brick lining in the firepot section of the drum. This brick is two inches thick, of the finest quality obtainable; there's a third row in the back to protect the furnace body from becoming overheated. And here's an important feature: you can use any kind of fuel with Wards All-Steel Furnace.

## WARDS HAS STEEL FURNACES TO HEAT FROM 5 TO 13 ROOMS

The prices quoted below include the furnace, complete with heavy galvanized casings, bonnet without collars, cement, check draft, regulating dial with 25-foot chain, pulleys, poker, shaker handle and a complete instruction booklet for installing. Water coils, smokepipe, elbows,

pipe and dampers are priced on Pages 44 and 45. For BUDGET PLAN see Page 3.

Shipped from Warehouse in Southwestern Ohio or stock in Chicago. For Estimated Freight Charges see Furnaces on Page 2.

Article Number	Diam. Drum Inches	Diam. Grate	Depth Firepot Inches	Diam. Outside Casing Inches	Size Feed Door Inches	Diam. Smoke Pipe Inches	Capacity Pipe Area Sq. Inches	Heating Capacity Number of Rooms	Approx. Shp. Wt. Pounds	Cash Price	Budget Plan Price
281HB1470	20	16	14	44	14x14 in.	9 in.	405	4 to 5	948	\$72.00	\$79.50
281HB1472	22	18	14	48	14x14 in.	9 in.	475	5 to 7	1061	81.00	89.50
281HB1474	24	20	14	50	14x14 in.	9 in.	555	6 to 8	1117	93.00	102.50
281HB1476	26	22	14	52	14x14 in.	9 in.	635	7 to 9	1171	105.00	115.50
281HB1477	30	26	14	56	14x14 in.	9 in.	865	9 to 11	1387	135.00	148.50
281HB1478	34	30	14	59	14x14 in.	9 in.	1035	11 to 13	1544	165.00	181.00

## Rated According to Standard Heating Code

The Standard Code, a set of rules to govern the proper installation of Warm Air Heating Systems, was developed to protect the public against wrong installations. It is approved and issued by authority of: National Warm Air Heating and Ventilating Association, Inc.; The American Society of Heating and Ventilating Engineers; and National Association of Sheet Metal Contractors. It is America's highest Authority on warm air heating.

The ratings given at the left are based on the Standard Code Ratings. This means that the proper size furnace positively will heat your home if installed according to the Standard Code specifications. Note also the many other superiorities listed above at the left. All of them combined make Wards Steel Furnace the best that modern engineering and manufacturing skill can produce. And to be sure we overlooked nothing... the design is especially adapted for efficient operation with either gas or oil burners.



# Wards New Pipe Furnace It's Really Modern

Wards Do Some  
Designing . . .

Proving That an  
Efficient Furnace  
Can Be Good Looking

**\$66.95**  
Cash Price

**\$6 Down**  
See Page 3

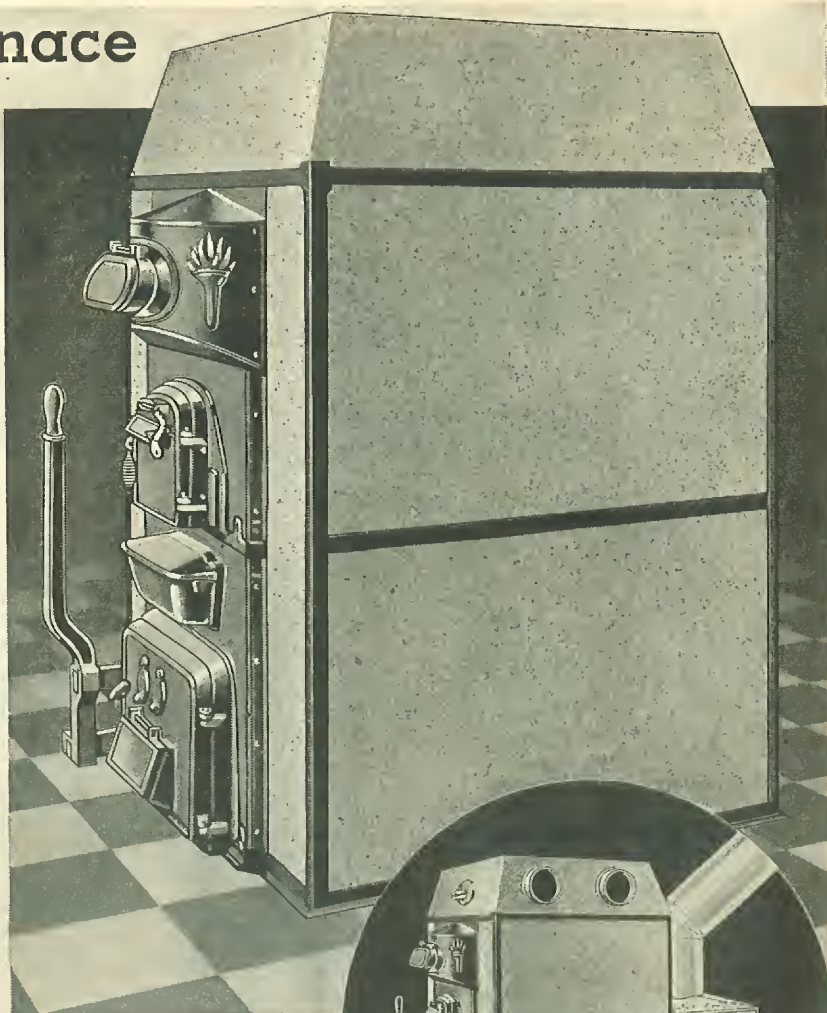
**NEW! MODERN!** Wards offer a furnace as up-to-date as tomorrow's news! We've completely redesigned old furnace styles—kept every worthwhile construction feature—but made the furnace a thing of beauty. NOW your basement becomes a playroom, a place for your games and your guests.

To start with, we've made the furnace rectangular, instead of the out-moded round shape. We've covered the metal casing with a beautiful green crystalline coating, sprayed on and oven baked to a hard surface. Smoke tight . . . gas tight . . . dust tight, the furnace does not leak dirt and is as easy to clean as any ordinary piece of furniture. A damp cloth makes its crystalline coat gleam. Metal corner posts and black trim accentuate its beauty.

Of course, the "insides" of a furnace are still as important as ever. These new furnaces embody every worthwhile feature of fifty years' experience in heating engineering. The massive inner castings are of cast iron, proved to be the most durable and at the same time the best material for furnace construction. One piece radiator and leak-proof construction make the furnace smoke-tight, dust-tight, soot-tight. More efficient—actual tests prove that a shovel of coal goes farther in these new furnaces. There are two reasons for that: One lies in the heavier, tighter construction . . . a construction that holds and radiates heat longer . . . cleaner, more healthful, too—no soot or gases can leak through the house. The second reason, this new furnace is really a bigger furnace than most other makes. The firepot tapers out so that it holds a bigger bed of coal—the fuel is burned slower—every last bit of heat is extracted. **Furnaces Shipped from Factory near Birmingham, Alabama. Estimated Freight Charges on Page 2.**

Article Number	Diam. Fire-pot Inches	Size Casing Height Inches	Size Casing Size Inches	Will Heat No. of Rooms	Capac. Pipe Area Sq. In.	Approx. Shp. Wt. Lbs.	Cash Price
281 HB 2820	20	65	40 by 35	5 to 7	445	1165	\$66.95
281 HB 2822	22	69	44 by 38	6 to 8	539	1375	79.00
281 HB 2824	24	71	48 by 42	7 to 9	645	1590	90.00
281 HB 2826	26	73	52 by 46	8 to 10	698	1815	110.00

**For Further Free Information, Write to  
Wards Engineering Service Department**



## Wards Complete Winter Air Conditioning Unit

Everything you desire in winter comfort! This system warms, cleans, circulates, moistens and purifies the air in your house. Complete unit consists of: (1) Wards new, modern rectangular Furnace described above—the finest furnace we have ever presented; (2) Wards new Air Circulator and Filter, described below, to force even temperatures throughout the house and to clean and purify the air; (3) Wards Automatic Drip Humidifier, described below at the right, to give you healthfully moist air.

The furnace included in this unit has a 20-inch firepot. Wards can furnish complete units of larger size at the lowest possible prices. Write for quotations.

**Furnace shipped from Factory near Birmingham, Alabama; Air Filter and Circulator shipped separately from Factory in Chicago; Humidifier shipped Separately from Stock. Estimated Freight Charges on Page 2.**

281 HB 2990—Complete unit (furnace firepot 20 inches). Ship. wt. 1292 lbs. . . . \$153.00

Wards can furnish a Thermostat and a Blower Control to make your unit completely automatic—electrically controlled. The thermostat operates the furnace draft and damper to maintain any house temperature desired (see Thermostats on Page 51). The blower control synchronizes the blower with the furnace—speeds up the blower when the furnace is hottest. For Thermostat, state in order and add \$14.95. For Blower Control, state in order and add \$8.95.

### Wards Free Engineering Service

If you wish further information on Wards newest heating equipment, write to Wards special Engineering Service Department. Experts will give you lowest quotations on any equipment.

**\$153.00**  
Cash Price  
**BUDGET PLAN**  
See Page 3

## WARDS COMBINED AIR FILTER AND CIRCULATOR

**\$80.00**  
Cash Price

**\$8 Down**  
See Page 3

Banish Cold Spots!  
Breathe Clean Air!  
Increase the  
Efficiency of Your  
Furnace!

Wards new, improved Air Filter and Circulator gives the highest possible efficiency to your system—whether new or old—and at the same time cleans and filters the air you breathe. This blower and filter is a part of Wards complete system shown above, but can be installed on any furnace to give you two of the most vital features of complete air conditioning—forced circulation and dust filtering.

Forced air circulation—provided by an ample centrifugal fan, operated by a sturdy electric motor—gives you even temperature throughout the house. There are no cold rooms . . . no cold spots . . . no stratification of heat.

Compact, unit is easily installed on your furnace. It is 32 inches high, 33 inches wide, and extends out 27 inches. Attractive green crystalline enamel finish.

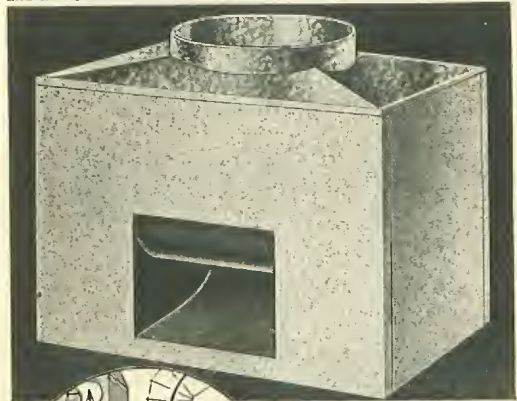
The air circulator shown here is ordinarily used with a 20 or 22-inch furnace. For lowest quotations on larger sizes write to Wards Free Engineering Service Department.

Operates on 110 to 120 volt, 60-cycle A.C. State size.

Shipped separately from Factory in Chicago.

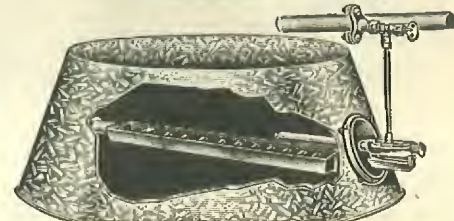
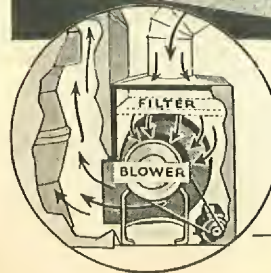
281 HB 8470—Capacity of 1200 cubic feet per minute. Shipping weight 180 lbs. . . . \$80.00

For highest efficiency of your air circulator, install Wards automatic Blower Control. Located in the bonnet of the furnace, this control synchronizes the blower with the furnace—speeds up the blower when the furnace is hottest. Completely automatic. For blower control, state in order and add \$8.95.



### How the Blower Works

Cold Air is drawn into the blower from the return ducts. The air is first cleansed and purified by passing through dirt and germ removing filters—then sent into the furnace casing by the sturdy centrifugal fan. The air is thoroughly warmed—as it passes over the hot castings, then sent out through the house.



## Wards Automatic Drip Humidifier

**\$7.95**  
Complete

Banish daytime drowsiness! Wards Automatic Drip Humidifier will make the air in your home healthful, exhilarating and bracing . . . because it

provides an adequate proportion of moisture. Doctors and scientists agree that a temperature of 70 degrees with 40 to 50 percent humidity helps prevent head colds, sore throats and other ailments. Moreover moist air eliminates cracking of walls, spreading of windows and floors and damage to furniture through drying out.

It slips into the top of your furnace casing. The flow of water is thermostatically controlled so that the hotter the furnace, the more moisture is provided. Water is distributed to the pan by the drip method, and can be adjusted to any desired amount. All parts are of brass and aluminum except the cast iron pan. Instructions for installing included. Will fit any pipe furnace. Ship. wt. 27 lbs. **Mailable.**

481 HB 7937 . . . . . \$7.95

Everything in Quality Paints . . . See Wards General Catalog

CBA MONTGOMERY WARD

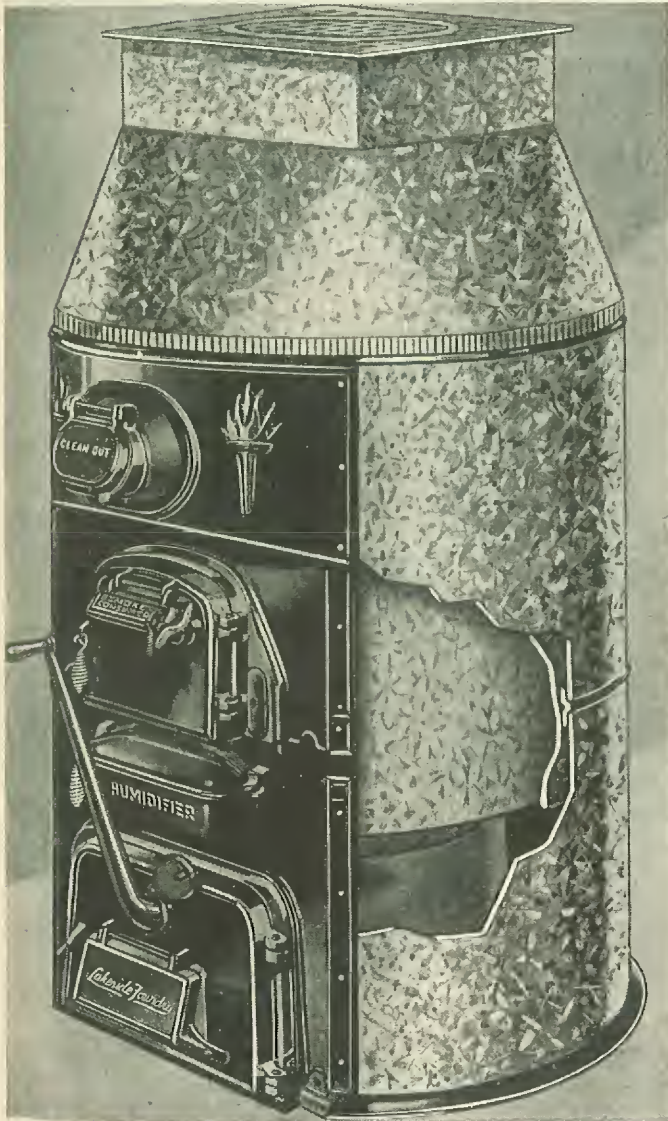
41



# And if You Prefer a PIPELESS FURNACE—

## Here is a *Wards De Luxe*

### with 2-Piece Firepot and Triangular Grates



#### Write For Free ESTIMATE BLANK

Wards maintain a staff of skilled heating engineers to aid you with your heating problems. They will advise you, free of charge, what type and size heating system is best suited for your particular home, if you require assistance. They will also send you the delivered price of all materials needed for the complete installation. Write to Wards Engineering Service Department, Montgomery Ward, for **Free Estimate Blank No. 12681-2**. Fill in the simple questions and return.

When we receive your order a skilled draftsman will draw up a complete set of blueprints showing the exact location of all parts for the complete installation for your home. With the aid of the blueprints, and instruction book that is furnished, any man mechanically inclined can quickly and easily install the heating system.

There is no charge for this service, and it obligates you in no way. After sending for the Estimate Blank, and receiving our complete estimate, you can feel free to order or not, just as you please.

**\$64<sup>50</sup>**  
CASH  
PRICE

**\$6 down**  
See Page 3

One of the most economical of all heating plants. The first cost is the last. No pipes to buy nor expensive labor costs. Install the unit in your basement—make an opening in the floor above for the warm air register. Regulating dial upstairs makes it easy to operate check damper and draft.

#### Has All the Famous De Luxe Features

This is the same Wards De Luxe shown on Page 38. Warm-air register and a triple casing of heavily galvanized sheet-steel converts it into a Wards De Luxe Pipeless Furnace. Cold air from your house descends through the outer casing, moves around the shorter inner casing where it is heated. Then it surges upward in a blast of warm air through the central register and circulates freely among the rooms. An additional register can be installed in the floor of a 2-story house to better conduct heat beyond the first floor.

#### Here's How to Get Best Results

To get best results from a pipeless furnace your house should be constructed to permit free circulation of air. It should be compactly arranged; rooms should have large doorways. Send us a description or a rough sketch of your room arrangement and we will tell you if this type of heating is suited to your home. See Page 37 for further information on the Pipeless Furnace.

Made in four sizes to heat homes containing 4 to 11 rooms. Complete with floor register, cement, check damper, regulating dial. 25 feet of chain, pulleys, poker, shaker handle and directions for installing and operating.



#### Here Are the Specifications That Prove Wards De Luxe Value

Article Number	Diam. Fire-pot Inches	Depth Fire-pot Inches	Size Floor Register Opening	Size Feed Door Opening	Diam. Smoke Pipe Inches	Heating Capacity in Cubic Feet	Heating Capacity Number of Rooms	Approx. Ship. Wt. Pounds	Cash Price	Budget Plan Price
181 HB 1918	18	10	28x28	10 x11½'	8	5700	4 to 6	1027	\$64.50	\$71.00
181 HB 1920	20	10½	30x30	10½x12½'	8	7700	5 to 7	1205	74.45	81.95
181 HB 1922	22	11	34x34	11 x13½'	9	9500	6 to 8	1418	94.00	103.50
181 HB 1924	24	12	36x36	11 x13½'	9	12000	7 to 9	1631	108.00	118.50
181 HB 1926	26	12	38x38	11½x13½'	9	14500	8 to 10	1712	123.00	135.50

#### Extra Large Wards Standard Pipeless Furnace

Same construction as above except it has standard bolted front in place of slip-on front and bolted base instead of one-piece base.

181 HB 1028	28	12	42x42	10¾x19'	10	16000	9 to 11	2031	136.00	149.50
-------------	----	----	-------	---------	----	-------	---------	------	--------	--------

Above furnaces Shipped from Stock in Baltimore or Albany or Warehouse near Birmingham, Ala. For Low Freight Rates see Page 2.

**You Can Install a Wards Pipeless Furnace Yourself—  
We Send You Complete Instructions**



# THINK OF IT—A Full-sized Quality Furnace for About What You Would Have to Pay for a Good Stove

## Wards Standard Quality Pipe Furnace

Wards Standard Quality Furnace is second only to our fine Wards De Luxe. It's a mighty fine job throughout, in fact it's made so well that many would call it their very best grade. The workmanship is excellent, the cast iron and other materials are first quality and the trouble-free service it has given over a period of years is the best testimonial any furnace can possibly have. And the features of the Standard Quality shown below tell you as well as any Heating Engineer could why this is an outstanding value. From what you yourself know about furnaces, even if your knowledge has been limited to just what others have told you, you'll recognize features here that are unmistakable marks of quality. Read about them. Complete with heavy galvanized casings, cement, bonnet—less collars, check draft, regulating dial, 25 feet of chain, pulleys, poker, shaker handle, fuel economizer and installation instructions. For your convenience the bonnet or top is shipped without collar or holes for pipe—you can locate the holes to suit your particular job. The smokepipe, elbows, wall pipe and dampers are priced on Pages 44 and 45, the watercoils on Page 49.

**\$44<sup>75</sup>**  
CASH PRICE

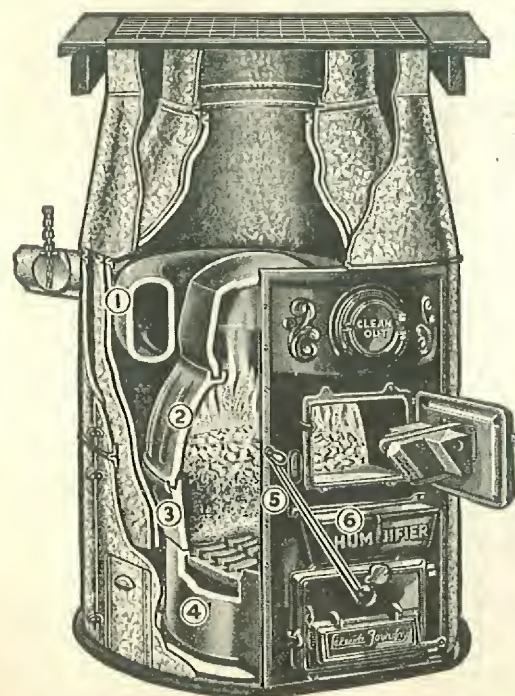
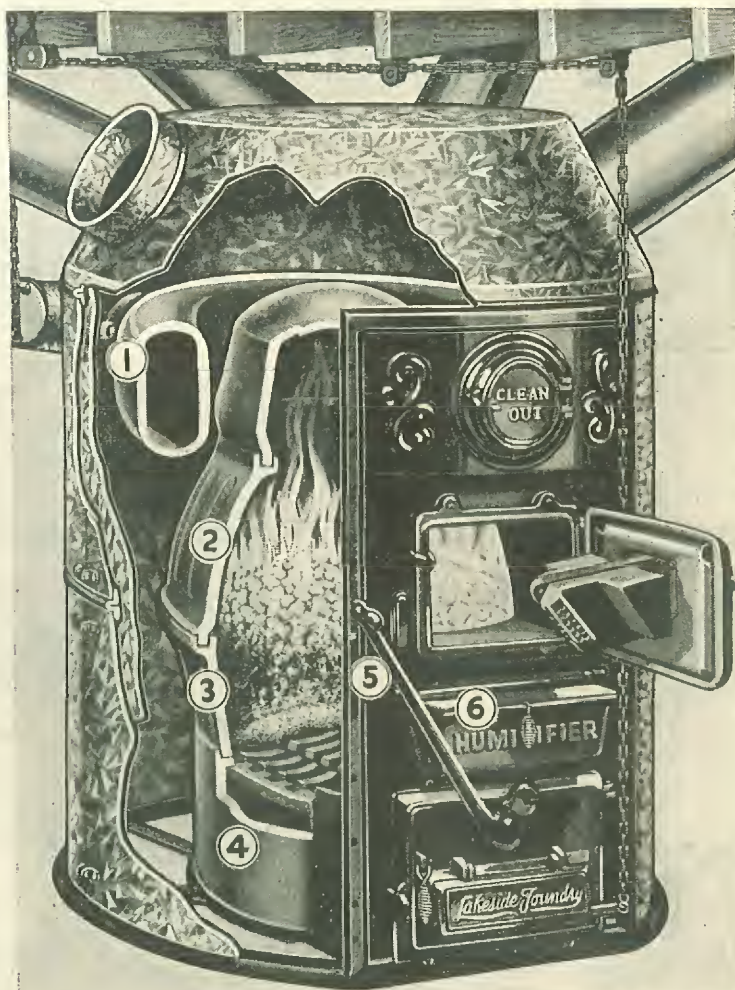
**\$5 down**  
See Page 3

Article Number	Diam. Fire-pot	Depth Fire-pot	Size Casing Height	Size Casing Diam.	Size Feed Door	Diam. Smoke Pipe	Heating Cap. No. of Rooms	Approx. Ship. Wt. Lbs.	Cash Price	Budget Plan Price
181 HB 1418	18 in.	10 1/2 in.	59 3/4 in.	40 in.	9x12 in.	8 in.	4 to 5	940	\$44.75	\$49.75
181 HB 1420	20 in.	11 in.	59 3/4 in.	42 in.	9x12 in.	8 in.	5 to 6	1060	53.75	59.25
181 HB 1422	22 in.	11 1/2 in.	62 in.	46 in.	10x13 in.	9 in.	6 to 7	1145	65.00	71.50
181 HB 1424	24 in.	12 in.	63 3/4 in.	48 in.	10x13 in.	9 in.	7 to 8	1270	76.00	83.50

Above furnaces Shipped from Stock in Chicago, Baltimore, Albany or Factory near Birmingham, Alabama. For Low Freight Rates see Page 2.

### Look Over These Quality Features

- ① **ONE-PIECE RADIATOR.** Is unusually deep and provides highest possible heating efficiency and lower fuel cost.
- ② **COMBUSTION CHAMBER.** The dome shape and corrugations increase heating surface. Large, heavy chamber transmits the maximum heat units to radiators.
- ③ **ONE-PIECE FIREPOT.** Massive construction. Deep corrugations increase heating surface and add to strength and durability. Extra heavy triangular grates made to last for years.
- ④ **LARGE HIGH ASHPIT** for easy removal of ashes. Heavier and stronger than used on most furnaces selling for more.
- ⑤ **BOLT-ON FRONT.** Cement makes gas-proof and smoke-tight joints.
- ⑥ **LARGE HUMIDIFIER** is easily accessible. It provides moisture to make the air in your home more healthful.



## Wards Standard Quality Pipeless

A simple, efficient heating plant that needs little space and is easy to install

**\$59<sup>50</sup>**  
CASH PRICE

**\$5 down**  
**\$6 a Month**  
See Page 3

Just the thing for the small compact home with means of circulation between rooms. It's easy to regulate and keeps your home cozy and cheerful—and does it at the lowest possible cost. In the first place the Standard Quality doesn't cost much itself . . . and in the second place it's economical on fuel. It doesn't have a yawning mouth that constantly cries for more coal till it makes your coal bin look as bare as Old Mother Hubbard's cupboard. And no wonder—with all those quality features listed above (exactly the same as used in our Standard Quality Pipe furnace) it's bound to

be a mighty efficient heating plant. It has a triple casing such as is used on the best pipeless furnaces. And if you follow the instructions you can install it as well as any expert. We furnish you with floor register, casings, cement, check draft, regulating dial with 25 feet of chain, pulleys, poker, shaker handle and instructions for installing and operating. Nothing more to buy. For basements up to 8 feet high.

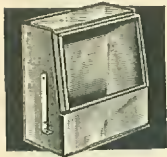
See Low Freight Rates on Page 2. For Monthly Payments see Wards Budget Plan on Page 3.

Article Number	Diam. Fire-pot	Depth Fire-pot	Size Floor Register	Diam. Outside Casing	Size Feed Door	Diam. Smoke Pipe	Heating Cap. No. of Rooms	Approx. Ship. Wt. Lbs.	Cash Price	Budget Plan Price
181 HB 1018	18 in.	10 in.	28x28 in.	40 in.	9x12 in.	8 in.	4 to 5	1050	\$59.50	\$65.00
181 HB 1020	20 in.	10 1/2 in.	30x30 in.	43 in.	9x12 in.	8 in.	5 to 6	1200	68.50	75.00
181 HB 1022	22 in.	11 in.	31x31 in.	46 in.	10x13 in.	9 in.	6 to 7	1320	86.50	95.00
181 HB 1024	24 in.	12 in.	36x36 in.	48 in.	10x13 in.	9 in.	7 to 8	1425	99.50	109.00

Above furnaces Shipped from Stock in Chicago, Balt., Albany or Factory near Birmingham, Ala.



# PIPE and FITTINGS for Warm Air Systems

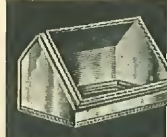


## Baseboard Register Box

### First Floor—One Room

Either single or double tin construction. For Heating one room. *State register size.*

Reg. Size	Ship. Wt.	281 HB 8300 Single Tin	281 HB 8400 Double Tin
8 by 10 in.	3 lbs.	36c	98c
8 by 12 in.	3 lbs. 8 oz.	40c	\$1.05
9 by 12 in.	4 lbs.	40c	1.05
11 by 13 in.	4 lbs. 8 oz.	47c	1.20
12 by 14 in.	5 lbs.	62c	1.40



## Register Box Angle

### 1st Floor—One or Two Rooms

45 degree angle for Baseboard Register Box. *State Register Size. For one room.*

Reg. Size	Ship. Wt.	281 HB 8301 Single Tin	281 HB 8401 Double Tin
8 by 10 in.	2 lbs. 8 oz.	24c	52c
8 by 12 in.	2 lbs. 12 oz.	25c	56c
9 by 12 in.	3 lbs.	25c	56c
11 by 13 in.	3 lbs. 8 oz.	29c	64c
12 by 14 in.	4 lbs.	40c	87c

For two rooms	281 HB 8310	281 HB 8410
8 by 10 in.	2 lbs. 12 oz.	30c
9 by 12 in.	3 lbs. 4 oz.	34c



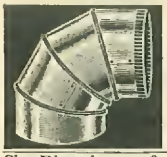
## Universal Boot

### 1st Floor—One or Two Rooms

Connects pipe to Register Box. *State pipe size. For one room register box.*

Reg. Size	Collar	Ship. Wt.	281 HB 8302 Single Tin	281 HB 8402 Double Tin
8 by 10	8 in.	3 lbs.	40c	98c
8 by 12	9 in.	3 lbs. 4 oz.	44c	\$1.05
9 by 12	10 in.	3 lbs. 8 oz.	44c	1.05
11 by 13	12 in.	4 lbs.	50c	1.20
12 by 14	14 in.	5 lbs.	77c	1.35

For two room register box	281 HB 8311	281 HB 8411
8 by 10	10 in.	5 lbs.
9 by 12	12 in.	6 lbs.
		52c
		58c
		\$1.15
		1.20

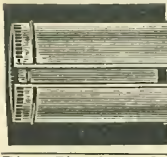


## Adjustable Elbows

Heavy gauge bright tin. Four separate pieces make possible adjustments up to 90 degrees. Single tin construction only.

281 HB 8303—*State pipe size wanted.*

Pipe Diam. in.	8	9	10	12	14
Ship. wt.	1 lb. 8 oz.	1 lb. 12 oz.	2 lbs.	2 lbs. 8 oz.	3 lbs.
Each	23c	25c	30c	42c	72c



## Warm Air Pipe

Heavy gauge bright tin. Tight-locking seams prevent collapsing. Shipped in two foot lengths with open seams. *State pipe size wanted.*

281 HB 8304—

Diam. Pipe, in.	8	9	10	12	14
Ship. wt.	2 lbs.	2 lbs. 4 oz.	2 lbs. 8 oz.	3 lbs.	4 lbs.
Per length	26c	30c	34c	40c	62c



## Warm Air Furnace Pipe Damper

Heavy gauge galvanized sheet steel. Complete with damper clip and tail piece. Easily installed. *State pipe size wanted.*

281 HB 8305—

Diam. pipe, in.	8	9	10	12	14
Ship. wt.	1 lb.	1 lb. 4 oz.	1 lb. 8 oz.	2 lbs.	2 lbs. 8 oz.
Each	14c	16c	17c	25c	34c



## Adjustable Angles

Heavy gauge bright tin. Made in two pieces allowing for free adjustment up to 45 degrees. Segments fit securely together. Single tin only. *State pipe size wanted.*

281 HB 8306—

Diam. pipe, in.	8	9	10	12	14
Ship. wt.	1 lb.	1 lb. 4 oz.	1 lb. 8 oz.	2 lbs.	2 lbs. 8 oz.
Each	15c	17c	20c	25c	45c

## Conform to "Standard Heating Code"

● A complete line for your warm air installation. Each piece is made on precision machinery from the finest quality materials known to the industry. Careful inspection at the factory insures perfect fitting.

● Both single and double fittings conform to the "Standard Heating Code" of The National Warm Air Heating Assn.

● The single tin fittings are sturdy and inexpensive and will give satisfactory service for years. Our heavy, strong double tin fittings are especially recommended because of a sealed air insulating chamber that gives additional protection against fire hazards, reduces heat loss and delivers more heat per pound of fuel.

● Whether you are going to install a complete Warm Air system or make repairs in your old one, our Engineering Service Dept. will plan it for you. See Pages 4 and 5.

● All Warm Air fittings are shipped from Factory in Cincinnati or Warehouses in Philadelphia, Pittsburgh, Rochester or Boston.

For Freight Rates, see "Furnace Fittings" on Page 2.



## Register Floor Pan—1st Floor

Frictionless funnel style. Full size floor pans. *State pipe size.*

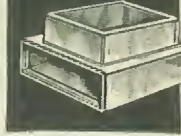
Reg. size	8x10	9x12	10x12	12x14	14x16
Collar	8 in.	9 in.	10 in.	12 in.	14 in.
Wt., lbs.	1 1/2	2	2 1/2	3	4
281 HB 8308					
Single Tin	30c	35c	41c	49c	82c
281 HB 8408					
Double Tin	46c	55c	60c	73c	\$1.25



## Register Floor Pan—2nd Floor

For Wall Pipe. Ship. wts., 1 to 3 lbs.

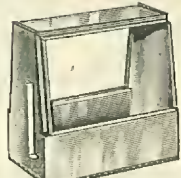
Register size, inches	8x10	8x12
Pipe size, inches	3x10	3x12
281 HB 8315—Single Tin	37c	40c
Pipe size, inches	3x10	3x12
281 HB 8415—Double Tin	90c	95c



## Register Floor Pan—2nd Floor

Ship. wts., 1 lb. 8 oz. and 2 lbs. *State size.*

Register size, inches	8x10	8x12
Pipe size, inches	3x10	3x12
281 HB 8328—Single Tin	37c	40c
Pipe size, inches	3x10	3x12
281 HB 8428—Double Tin	92c	95c

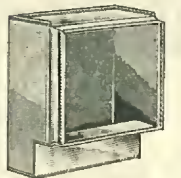


## Baseboard Register Box

### First Floor—Two Rooms

Single and double tin Register Box for heating two first-floor rooms. With anchor straps. *State size wanted.*

Register size, inches	8x10	9x12
Shipping weights, lbs.	3	4
281 HB 8309—Single Tin	47c	52c
281 HB 8409—Double Tin	\$1.20	\$1.27

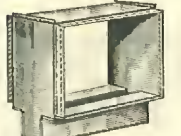


## Baseboard Register Box

### Second Floor—One Room

Ship. wts., 3 lbs. 8 oz. and 4 lbs. *State size.*

Register size, inches	8x10	8x12
Pipe size, inches	3x10	3x12
281 HB 8322—Single Tin	37c	40c
Pipe size, inches	3x10	3x12
281 HB 8422—Double Tin	98c	\$1.05

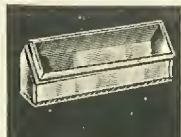


## Baseboard Register Box

### Second Floor—Two Rooms

Ship. wts., 6 and 7 lbs. *State size.*

Register size, inches	8x10	8x12
Pipe size, inches	3x10	3x12
281 HB 8318—Single Tin	47c	52c
Pipe size, inches	3x10	3x12
281 HB 8418—Double Tin	\$1.18	\$1.27



## Wall Pipe—Horizontal Angle

45 degree angle for Horizontal Wall Pipe. Ship. wts., 3 and 5 lbs. *State size wanted.*

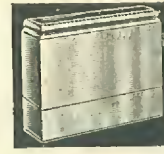
Pipe size, inches	3x10	3x12
281 HB 8317—Single Tin	20c	22c
Pipe size, inches	3x10	3x12
281 HB 8417—Double Tin	35c	38c



## Wall Pipe—Vertical Angle

45 degree angle for Vertical Wall Pipe. Ship. wts., 3 and 4 lbs. *State size.*

Pipe size, inches	3x10	3x12
281 HB 8316—Single Tin	25c	28c
Pipe size, inches	3x10	3x12
281 HB 8416—Double Tin	52c	56c



## Furnace Wall Pipe

Made of heavy gauge bright tin in both single and double styles. Joints are easily and securely made. Shipped nested. *State clearly the number of lengths and sizes wanted.*

## Single Tin Wall Pipe

Two foot lengths only. Ship. wts. 5 and 6 lbs.

281 HB 8323—*State size wanted.*  
3 by 10 in. .... 36c 3 by 12 in. .... 39c

## Double Tin Wall Pipe

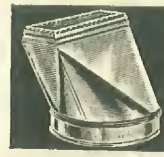
281 HB 8423—*State size and length wanted.*

Length, in.	Ship. wts.	3x10% in.	3x12% in.
2	8 oz.	22c	26c
4	12 oz.	25c	31c
6	1 lb.	31c	35c
12	2 lbs.	43c	50c
24	4 lbs.	80c	85c

## Wall Pipe Adjustable Joint

Adjustable from 6 to 12 inches in length. Double tin only. Ship. wts., 1 lb. 8 oz. and 2 lbs.

281 HB 8429—*State size wanted.*  
3 by 10% in. .... 65c 3 by 12% in. .... 70c



## Universal Boot

For Wall Pipe. Ship. wts. 3 lbs. 8 oz. and 5 lbs. *State sizes.*

Collar	8 in.	9 in.
Pipe, in.	3x10	3x12
281 HB 8324		
Single Tin	37c	40c
Pipe, in.	3x10	3x12
281 HB 8424		
Double Tin	89c	98c



## Horizontal 90 Degree Angle

Ship. wts. 1 lb. 8 oz. and 2 lbs.

Pipe, in.	3x10	3x12
281 HB 8319		
Single Tin	37c	40c
Pipe, in.	3x10	3x12
281 HB 8419		
Double Tin	62c	66c



## Vertical 90 Degree Angle

Ship. wts. 3 and 4 lbs.

Pipe, in.	3x10	3x12
281 HB 8320		
Single Tin	40c	45c
Pipe, in.	3x10	3x12
281 HB 8420		
Double Tin	98c	\$1.08



## Horizontal One Room

Ship. wts. 2 lbs. 8 oz. and 3 lbs.

Reg. size, in.	8x10	8x12
Pipe size, in.	3x10	3x12
281 HB 8325		
Single Tin	37c	40c
Pipe size, in.	3x10	3x12
281 HB 8425		
Double Tin	89c	95c



## Bonnet Collar

State whether collar is for straight or pitched hood.

281 HB 8307—Single tin.

Pipe, in.	8	9	10	12	14
Wt. lbs.	1/2	3/4	1	1 1/2	2
Each	17c	20c	21c	25c	31c



## Galvanized Smoke Pipe

581 HB 7959—Positive lock seams. 2-foot lengths. *State size and number of lengths.*

Diameter	7 in.	8 in.	9 in.	10 in.
Ship. Wt.	2 lbs.	2 lbs.	2 lbs.	3 lbs.
	4 oz.	8 oz.	12 oz.	4 oz.
Per length	26c	28c	31c	35c



## Smoke Pipe Elbow

581 HB 7961—Galvanized steel. *State size.*

Diameter	Ship. Wt.	Each
7 in.	1 lb.	26c
8 in.	1 lb. 4 oz.	30c
9 in.	1 lb. 8 oz.	34c
10 in.	2 lbs.	39c



## Smoke Pipe Damper

581 HB 8059—Cast iron. Regulates draft. *State size.*

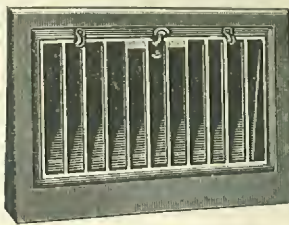
Diam.	Ship. Wt.	Each
7 in.	12 oz.	16c
8 in.	1 lb.	22c
9 in.	1 lb. 4 oz.	29c
10 in.	1 lb. 8 oz.	41c



## REGISTERS for Warm Air Systems

### BASEBOARD REGISTER

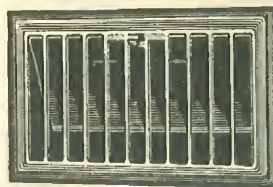
High quality pressed steel register fits in baseboard. Large air capacity. Face is detachable for easy cleaning. Formed bar design. Foot operated valve deflects air at angle. Choice of Black Japanned or Lacquered Bronze finish. State face size and kind of finish wanted.



Face size Inches	Ship. Weight Pounds	281 HB 8365 Black Japanned	281 HB 8366 Lacquered Bronze
8 by 10	3	\$1.30	\$1.55
8 by 12	4	1.60	1.95
9 by 12	5	1.95	2.30
11 by 13	6	2.95	3.50
12 by 14	7	4.30	4.95

### SIDEWALL REGISTER

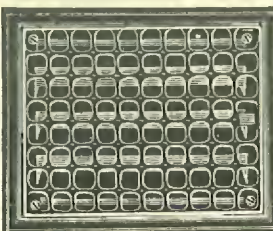
Installed above baseboard. One-piece pressed steel vertical bar face. Valve opens to full 90 degrees. State register face size and kind of finish wanted.



Face size Inches	Ship. Wt. Pounds	281 HB 8367 Black Japanned	281 HB 8368 Lacquered Bronze
8 by 10	2 lbs. 12 oz.	\$1.10	\$1.35
8 by 12	3 lbs. 8 oz.	1.30	1.50

### FLOOR REGISTER

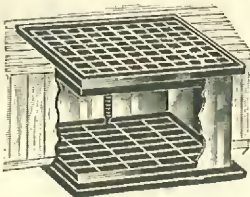
Made of reinforced wrought steel. Sturdy shutter-valves are simple and easy to operate, and provide full air capacity. Wide body flanges relieve strains from register face. State register face size and kind of finish wanted.



Face Size Inches	Ship. Wt. Pounds	281 HB 8369 Black Japanned	281 HB 8370 Lacquered Oak
8 by 10	3 lbs.	\$1.10	\$1.30
8 by 12	3 lbs. 8 oz.	1.30	1.55
9 by 12	4 lbs.	1.40	1.70
10 by 12	4 lbs. 12 oz.	1.60	1.95
12 by 14	7 lbs.	2.85	3.50
14 by 16	9 lbs.	5.65	6.75

### CEILING REGISTER

Permits heat to pass from lower floor to room immediately above. Large capacity steel faces. Ceiling plate is white enameled, and floor register is enameled black with foot-operated valve. Adjustable for floors from 4 to 11 inches thick. 481 HB 8025—Shipped from Stock. State size.



Register Size	Shipping Weight	Each
8 by 10 ins.	7 pounds	\$1.98
9 by 12 ins.	10 pounds	2.50
10 by 12 ins.	15 pounds	2.95
12 by 14 ins.	18 pounds	4.75

### Pressed Steel Cold Air Face

Heavy spot-welded braces. No careful fitting required. State size and finish wanted.



Face Size Inches	Ship. Wt. Pounds	281 HB 8371 Black Japanned	281 HB 8372 Lacquered Oak
8 by 30	9 lbs.	\$2.40	\$2.55
10 by 24	9 lbs.	2.40	2.55
10 by 30	9 lbs.	2.50	2.80
12 by 24	9 lbs.	2.50	2.60
12 by 30	11 lbs.	2.60	2.95
14 by 30	12 lbs.	2.95	3.30
16 by 30	13 lbs.	3.60	3.95
18 by 30	14 lbs.	3.80	4.30
20 by 30	16 lbs.	3.95	4.60

## COLD AIR FITTINGS

Same high quality as our Warm Air fittings. Of 26-gauge steel, galvanized inside and out. Lock seams and crimped-edge joints insure a simple, compact, return line.

Two return lines, from different sides of the house, should be installed for efficient circulation. Area of Cold Air returns should equal or exceed by 25% the total area of

Warm Air leads. Use 45-degree turns unless you have to use 90-degree turns.

Unless otherwise specified, all items on this page are Shipped from Factory in Cincinnati or Warehouse in Philadelphia, Pittsburgh, Rochester, or Boston. "Furnace Fitting" Freight Rates Page 2.

### Cold Air Pipe

Heavy galvanized steel with improved lock seams. In two foot lengths. State size wanted.

281 HB 8356—

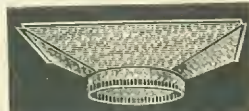


Pipe size, in.	14	16	18	20	22
Ship. wt. lbs.	8	9	9	10	11
Per length	57c	65c	73c	90c	\$1.10

### Transition Head

Heavy gauge galvanized steel. State collar size wanted.

281 HB 8361—



Collar diam., in.	14	16	18	20	22
Ship. wt. lbs.	8	9	9	10	10
Each	\$1.40	\$1.55	\$1.65	\$1.95	\$2.15

### Cold Air Collar

Galvanized steel plate and collar. State collar size.

281 HB 8360—

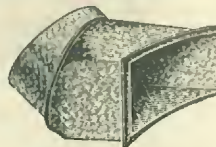


Collar diam., in.	14	16	18	20	22
Ship. wt. lbs.	4 lbs.	4 lbs. 8 oz.	5 lbs.	7 lbs.	8 lbs.
Each	80c	89c	95c	98c	\$1.10

### Cold Air Boot With 45 Degree Collar

Provides large, frictionless passage for cold air returning to furnace. Collar is adjustable up to 45 degrees. Heavy gauge galvanized sheet steel. State collar size wanted.

281 HB 8358—



Collar diam., in.	14	16	18	20	22
Ship. wt. lbs.	8	8	9	10	13
Each	\$2.05	\$2.25	\$2.65	\$3.00	\$3.40

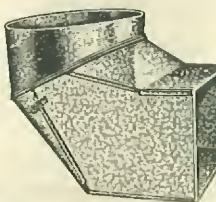
### Cold Air Boot with Adjustable Collar

For use where space will not permit use of No. 281 HB 8358 Boot shown above.

Heavy gauge galvanized steel. Collar is adjustable from 45 to 90 degrees.

State collar size wanted.

281 HB 8329—



Collar diam., in.	14	16	18	20	22
Ship. wt. lbs.	8	9	9	11	14
Each	\$2.55	\$2.75	\$3.20	\$3.60	\$4.15

### Cold Air Box

Heavy galvanized steel sectional cold air duct. For use across joists.

Joints are easily made without use of tools or solder. Shipped unassembled.

281 HB 8355—State size wanted.



Pipe size, in.	5x30	6x30	8x30	10x30	12x30
Length, inches	24	24	11	24	24
Ship. wt. lbs.	8	10	11	12	13
Each	\$1.20	\$1.30	\$1.50	\$1.65	\$1.90

### Cold Air Box End

For closing end of cold air duct.

281 HB 8362—State pipe size wanted.

Pipe size, in.	5x30	6x30	8x30	10x30	12x30
Ship. wt. lbs.	1 lb.	1 lb. 4 oz.	1 lb. 8 oz.	1 lb. 12 oz.	2 lbs.
Each	39c	42c	54c	68c	75c

### Cold Air Elbow

Galvanized steel. Adjustable up to 45 degree angle. Crimped edges for tight joints. State size wanted.

281 HB 8357—



Pipe diam., in.	14	16	18	20	22
Ship. wt. lbs.	4	5	6	7	8
Each	52c	64c	79c	98c	\$1.12

### Galvanized Steel Sheets

For use in closing joists and cold air work. Furnished in two gauges, both heavily galvanized, both 32 by 96 in.

281 HB 8350—State gauge.

26 gauge. Shipping weight each sheet 19 lbs.

Price per sheet.....\$1.50

28 gauge. Shipping weight each sheet 18 lbs.

Price per sheet.....1.50

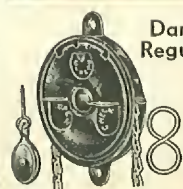
### WARDS ENGINEERING SERVICE DEPT. FOR FREE INFORMATION

Whatever you need in the way of plumbing and heating equipment—Wards can fill that need. We carry one of the largest and most complete lines in America.

If there is any furnace fitting which you want and do not find listed here... or if you do not find the size you want... write to Wards Engineering Service Department for free information and special prices.

Wards engineers can perform many useful services for you. Are you wondering how much a complete new heating plant for your home would cost? Would you like to know the respective merits of a warm air furnace and a hot water boiler? If these, or any questions like them, are puzzling you—write to Wards Engineering Service Department. Experts will help you solve your problems... free of charge... without obligation.

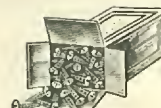
## INSTALLATION SUPPLIES



Damper  
Regulator

Permits hand operation of damper from upstairs. Indicates "Open," "Closed," and "Check." Oxidized copper finish, pressed steel body, 30-ft. safety chain, 4 pulleys, 2 "S" hooks, and wood screws for fastening to wall. Ship. wt., 1 lb.

281 HB 8373—  
Complete.....95c



Sheet Metal  
Screws

Shipped from Stock. Ship. wts. 8 oz. and 1 lb. State length.

81 HB 8376—  
1/2 inch.  
Per box.....57c  
3/4 inch.  
Per box.....75c



Galvanized  
Draw Bands

Adjustable. State size.

Diam.	Ship. Wt.	Each
7 inch	12 oz.	18c
8 inch	1 lb.	20c
14 inch	1 lb. 8 oz.	31c
16 inch	1 lb. 12 oz.	36c
18 inch	2 lbs.	42c
20 inch	2 lbs. 4 oz.	48c
22 inch	2 lbs. 8 oz.	59c



Furnace  
Pipe Wire

2-lb. rolls.  
281 HB 8375—  
Per roll.....33c

### Steel Chain

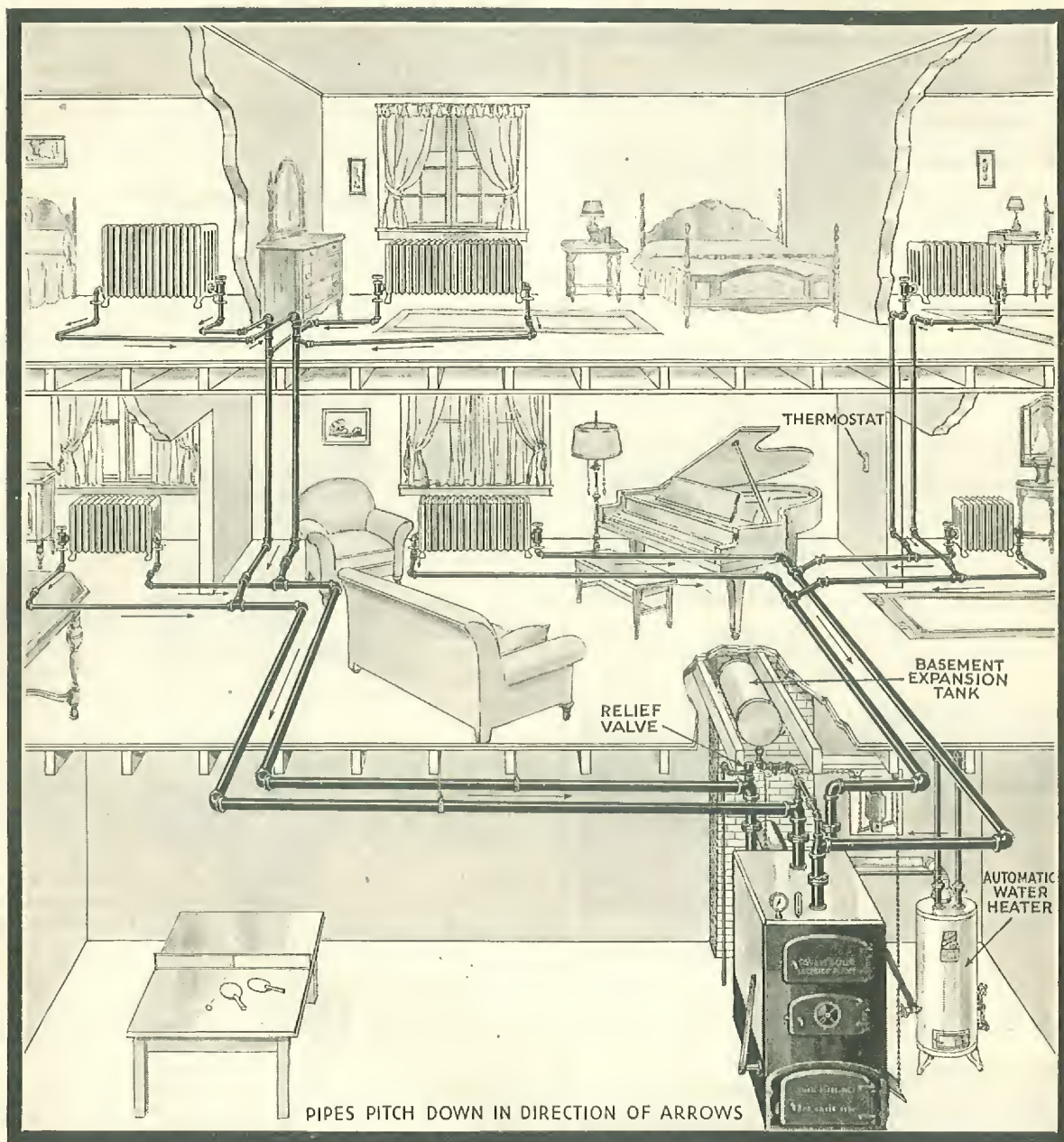
Box contains 36 ft. length. Ship. wt. 2 pounds.  
281 HB 8374—  
Per box.....62c



# WARDS HOT WATER HEATING SYSTEM

**P**ICTURED here is a Wards Hot Water Heating System, installed in a home of moderate size. It was planned and laid out by Wards Heating Engineers, and embodies all features needed to give perfect heating comfort in the home. A hot water system is featured by its quiet, uniform heat, cleanliness and ease of control.

The electric thermostat heat control and automatic water heater are, of course, optional and can be installed with any heating system.



**I**N A hot water heating plant the entire system—radiators, pipes, boiler—is filled with water. It operates on the principle that warm water is lighter than cold, which causes the heated water to rise and circulate through the system.

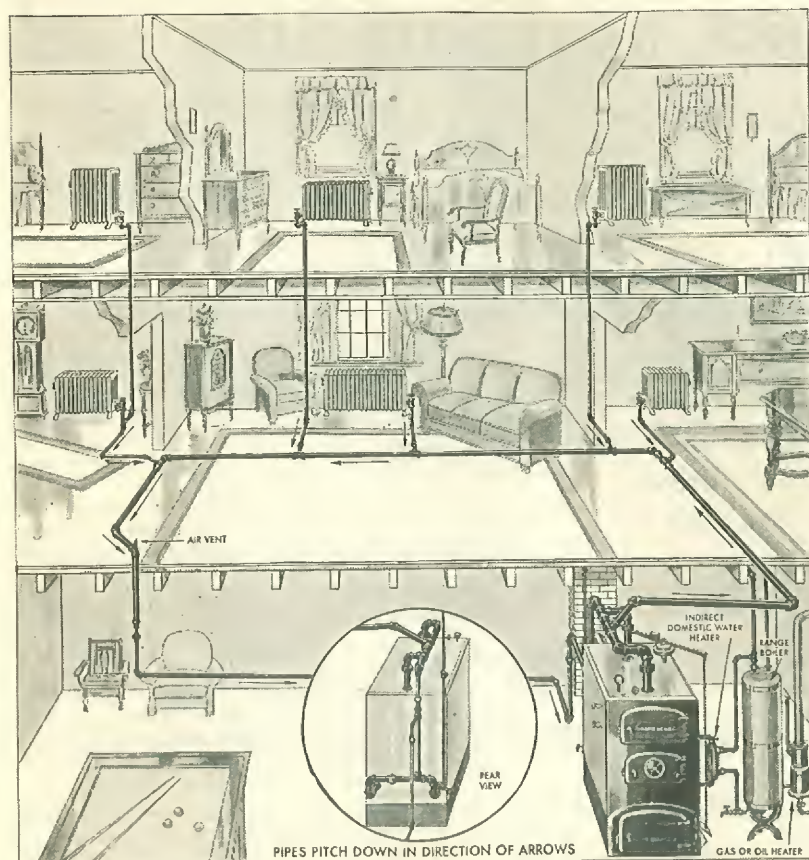
When a fire is started in the boiler, water surrounding the fire pot is heated and rises to the top. It continues to rise through the pipes connected to the top of boiler until it reaches the radiators, where much of its heat is radiated by the metal and transferred to the air in the room. At the same time a freshly heated quantity of water is rising from the boiler, so the cooled water in the radiators flows back to the boiler through the return pipe. Here it is again heated, and once more starts on its journey through the system, absorbing heat from the fire and transmitting it to the air in the rooms above. The system is protected against excessive pressures by a relief valve. See Page 54.

The thermostat used in this installation is connected to a clock. Set it, once and for all, so it will hold any desired temperature during the day and then allow the home to cool ten or fifteen degrees during the night. In the morning it will automatically open the drafts. All you need to do is fire the boiler, remove the ashes, and set the thermostat at the temperature you wish. See Page 51 for thermostats.

The automatic heater is connected to the boiler by a heating coil (See Page 49) which supplies all the hot domestic water necessary when boiler is in operation. However, during spring and fall months fire in boiler is held at a lower point and during the summer it is allowed to go out entirely. When fire in boiler is too low to provide an adequate supply of hot water, the automatic heater will go to work and keep a tank full of piping hot water. On Pages 32, 33 and 35 are complete descriptions of all types of automatic heaters.



# WARDS STEAM HEATING SYSTEM



In a steam heating system, only the boiler contains water. This small quantity of water is quickly brought to a boil and changed to steam which rises through pipes to the radiators, forcing the air ahead of it. The air vent at the end of the main, and the valves on each radiator, permit all air to escape rapidly but close instantly when reached by live steam, thus preventing the loss of water or steam from the system. The main vent increases the efficiency of the system by expelling air and allowing steam to fill entire main and rise in all radiators simultaneously.

As steam in the radiators gives up heat to the room, it condenses and becomes water again and returns to boiler, where it is again converted into steam, repeating the process.

*Wards Steam Boilers* maintain a uniform working pressure. They are equipped with automatic damper regulators which check the fire at any desired pressure. As heat is given off in the house the pressure falls, and the regulator again opens the drafts. Each Wards boiler is equipped with a safety valve.

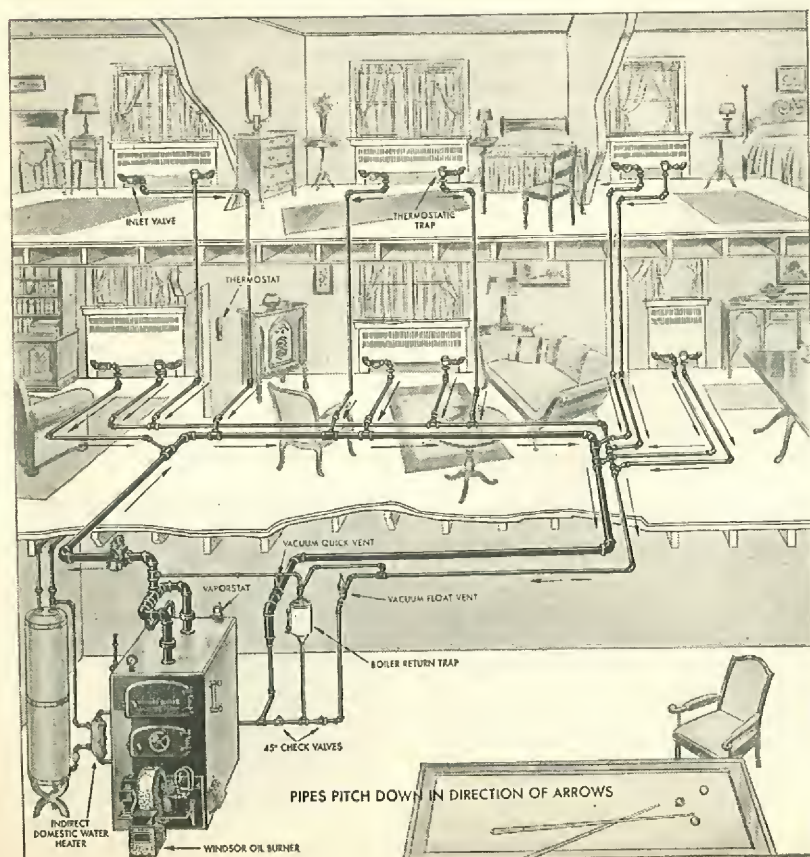
Wards one-pipe steam systems were specially designed by our own engineers to eliminate objectionable noises.

Every *Wards Steam System* can be equipped with vacuum vent and radiator valves. These cost slightly more than standard valves, but will more than pay for themselves in fuel saved. These valves are shown on Page 54.

A steam heating plant, such as the one shown here, gives quick heat and is particularly suitable where a control of individual radiators is desired. When the radiators are equipped with vacuum valves, this makes an unusually efficient installation. Wards engineers will design a similar system for your home to give the maximum in heating efficiency.

The domestic hot water supply system shown here consists of an insulated range boiler (see Page 34) with an auxiliary gas or oil heater for summer use. It is also equipped with an indirect heater which supplies hot water during the heating season without firing the auxiliary heater. See Pages 33 and 49 for further details on domestic water heating systems.

# WARDS VAPOR HEATING SYSTEM



*Wards Vapor Heating Systems* combine the good features of Steam and Hot Water Heating. They provide for instant heat in any radiator and permit individual control of each radiator. They are absolutely noiseless in operation.

Each radiator in a Vapor System is equipped with a packless valve on the supply end to control the amount of steam (or vapor) in the radiator and a thermostatic trap on the return end which permits the condensed water to return to the boiler only after it has given up its useful heat. With a declining fire a partial vacuum is created, causing the water in the boiler to continue to vaporize and give heat to the radiators for a considerable period.

*The Wards Oil Burner* is fully described on Page 50. When installed as shown at left, it is controlled by a thermostat and clock to give the desired temperature during the day, automatically lower the temperature at night, and raise it again in the early hours before you get up.

The indirect water heater and range boiler are connected to the heating boiler and will furnish all the hot water you want. In the summer, to have the burner heat the range boiler only,—simply close a valve on the heating system. Hot water is then furnished at a lower cost than could usually be done with gas. With this arrangement, a fully automatic system is obtained which requires practically no attention either winter or summer. If, in severe weather, a door or window were carelessly left open so that the demands from the thermostat on the heating system might cause too high a steam pressure, a protective Vapor-stat will automatically turn off the Burner. In the summer the Burner is automatically regulated by the demands of the domestic hot water supply.

The concealed radiators, shown in this installation, are built of seamless copper tubes with copper fins to permit rapid radiation. They can be furnished to be built into the walls of a new house or concealed in a standing floor cabinet for homes already built. Concealed copper radiation heats by convection and gives a more even distribution of heat than any other type of radiation. See Page 52. A vapor system can be installed with a coal or gas burning boiler and cast iron radiation just like steam or hot water.



# The arrows show you why you get quick heat with little coal

## WARDS SQUARE BOILERS

For Hot Water, Steam or Vapor—Burn Coal or Oil

**\$64.95**  
Hot Water  
Boiler with-  
out Jacket but with Trim

**\$6 DOWN**  
**\$7 a Month**  
See Page 3

Here you actually see how the scorching heat encircles every section . . . in fact, Wards De Luxe construction with its long flue travel and large heating surface insures rapid and efficient absorption of heat from the fuel. The circulation of water in the waterways is exceedingly rapid. The flue arrangement and the great amount of space in the combustion chamber (between top of the fuel bed and crown sheet) allows an easy, unrestricted flow of the burning gases, which assures a proper and complete combustion rate and easy regulation.

There are many other advantages too . . . listed below . . . all of which combined meet the most exacting requirements of engineers, architects and contractors. All factors considered . . . and at Wards amazingly low price . . . it's a value hard to equal. Backed by Wards Heating Guarantee Printed in full below at left—your assurance of Quality and satisfaction.

### And These Features Tell You What You Cannot See

Heavy metal jacket finished in Cardinal Red with black enamel doors.

The insulation on four sides and top with heavy 1-inch asbestos, means a great saving in heat and fuel.

Heavy rocking type grates that will permit the burning of all domestic sizes of fuel.

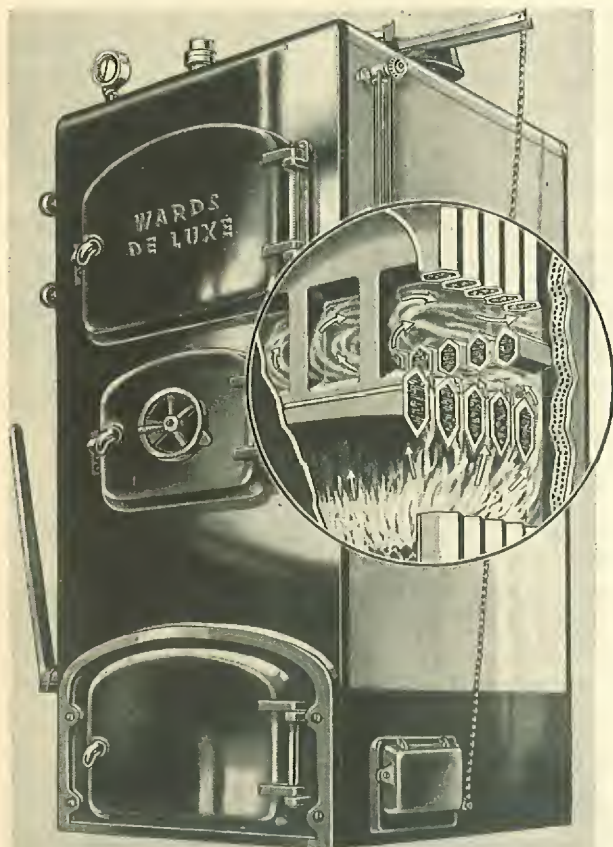
Deep firepot permits firing sufficient fuel to insure long periods without attention. The large combustion chamber allows thorough mixing of gases and burning them into useful heat without excessive loss in the form of smoke and soot up the chimney.

Extra large ash pit insures long life of grates and ease of ash removal.

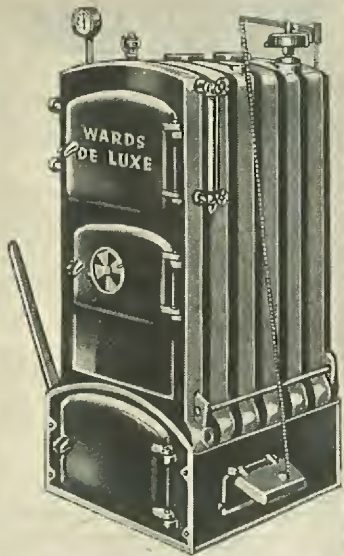
All feed and clean out doors are ground to fit, preventing the leakage of cold air to flue way or escape of gases into the cellar.

Design of water ways insures rapid circulation throughout the boiler.

Sections easily assembled. Each boiler furnished with shaker handle, steel wire cleanout brush, poker equipment shown on illustrations and instructions for installing and operating. Overall height 58 inches, with 46-inch water line for steam boilers. 9-inch smoke collar.



Note in the large picture above, the long travel of flame—3 times the length of the boiler, causing rapid circulation of the water in the numerous tubes. There is no waste of heat. The fire-pot is unusually deep and holds fire for long intervals.



### Heating Guarantee

We Guarantee Wards De Luxe Boilers to be free from defects in material and workmanship and to give satisfactory service when installed and used according to instructions.

We further guarantee, upon request and without charge, to make adjustments and repairs to said system which become necessary, or replace any parts found defective in manufacture, during the first year after purchase—where said adjustments, repairs or replacements are required through any fault of ours.

### Shipping Points and Freight Rates

All Boilers on this page shipped separately from Factory in western New York or Warehouse in Central New York, Long Island or Central Maryland.

For Low Freight Rates turn to Page 2 and look under "Boilers, Cast Iron Heating."

See Page 3 for Budget Plan  
Low Freight Rates on Page 2

#### WARDS DE LUXE HOT WATER BOILERS—STATE SIZE WANTED

No. of Sections	Grate Size In.	Grate Area Sq. Ft.	Rated Capacity Sq. Ft.	Actual Load Sq. Ft.	App. Ship. Wt. With Jacket	281HB7861 With Jacket	App. Ship. Wt. Less Jacket	281HB7859 Less Jacket
5	17	2.0	950	450	1180	\$76.50	1050	\$64.95
6	17	2.5	1250	575	1360	87.95	1210	74.95
7	17	3.0	1550	675	1500	99.75	1350	84.75
8	17	3.5	1850	800	1645	109.50	1485	96.75
9	17	4.0	2150	900	1820	122.50	1625	107.00

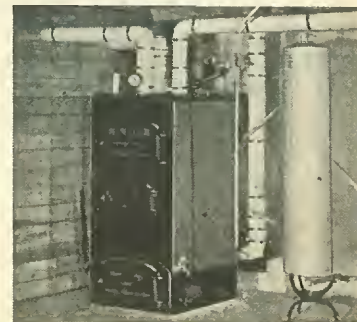
#### WARDS DE LUXE STEAM BOILERS—STATE SIZE WANTED

No. of Sections	Grate Size In.	Grate Area Sq. Ft.	Rated Capacity Sq. Ft.	Actual Load Sq. Ft.	App. Ship. Wt. With Jacket	281HB7862 With Jacket	App. Ship. Wt. Less Jacket	281HB7860 Less Jacket
5	17	2.0	575	250	1180	\$85.45	1050	\$73.50
6	17	2.5	750	350	1360	97.50	1210	83.95
7	17	3.0	925	425	1500	109.95	1350	94.50
8	17	3.5	1100	500	1645	119.50	1485	107.50
9	17	4.0	1275	550	1820	132.50	1625	119.00

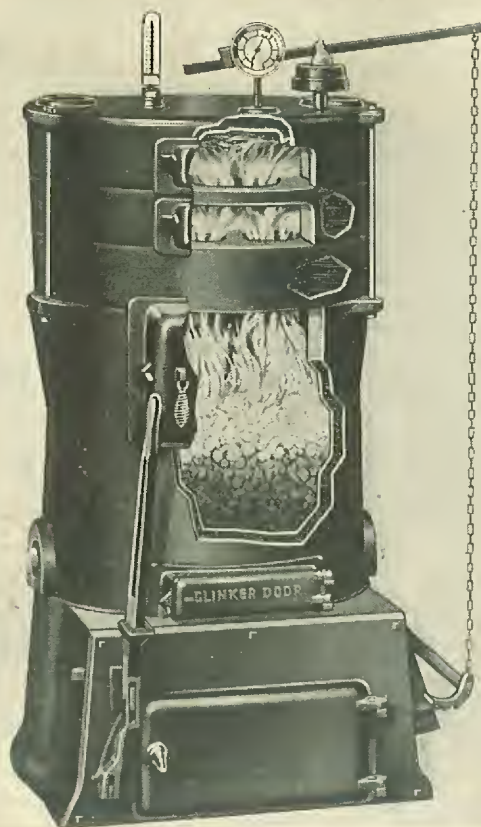
### One of the Many Wards Square Boilers Now in Use

A neat Hot Water Boiler installation in the home of Mr. Albert Lewandowski, Waukegan, Ill. He has a brick bungalow with 5 unusually large rooms. He selected a Wards Square Boiler following the recommendations of our Engineering Department as to size of boiler and radiation required.

Every room in the house is comfortably heated at all times, with a surprisingly small amount of fuel, reports Mr. Lewandowski, who is very well satisfied. Wards also supplied all the plumbing fixtures for this home.







# IF YOU PREFER A ROUND BOILER Wards Boilers do a Fine Heating Job

Round Boiler  
for Hot Water

**\$4875**  
Cash Price

Budget Plan Terms  
\$5 Down  
\$5 Monthly

Heat... and plenty of it... quickly! That's what you get with either a Round Hot Water or Steam boiler. The fire travel is scientifically guided by means of staggered openings so that the heat units are absorbed by the water instead of passing up the chimney. The unusually deep firepot holds a large quantity of fuel, thereby maintaining the temperature for long periods of time. The sides of the firepot are smooth and tapered to prevent crusted fuel from hanging to sides and insuring a self-cleaning surface. You can burn all sizes of domestic fuels too... and a positive setting of the shaker allows the fire to be gently agitated or completely dumped. Any good Heating Engineer will tell you the other features shown above are the best you can possibly get anywhere. Boilers shipped in sections with complete instructions for installation. Both Hot Water and Steam Boilers include damper regulator, gauges, etc. as pictured above. In addition a shaker handle, wire flue brush and poker are furnished. May be purchased on Wards Budget Plan—see Page 3. Shipped from Warehouse near Pittsburgh, Pa., Glendale, L. I., Philadelphia, Boston or Chicago. For Low Freight Rates see under "Boilers, Cast Iron Heating" on Page 2.

Round Boiler  
for Steam

**\$5825**  
Cash Price

Budget Plan Terms  
\$5 Down  
\$6 Monthly

							HOT WATER BOILERS				STEAM BOILERS				
Size of Grate	Sections Above Firepot	Grate Area Sq. Ft.	Chimney Needed		Size of Smoke Pipe, In.	Inlets Outlets No. and Size, In.	Rated Capacity Sq. Ft.	Actual Radiation Load Sq. Ft.	Ship. Wt. Pounds (May vary)	Article Number 281HB7833	Height Water Line Inches	Rated Capacity Sq. Ft.	Actual Radiation Load Sq. Ft.	Ship. Wt. Pounds (May vary)	Article Number 281HB7834
			Height Feet	Flue Size, In.											
17 in. Diam.	2	1.52	30	8x8	7	2 ea. 2½	600	285	625	\$ 48.75	41½	350	175	725	\$ 58.25
	3	1.52	30	8x8	7	2 ea. 2½	675	320	730	57.25	46	400	195	830	65.25
20 in. Diam.	2	2.01	30	8x8	9	2 ea. 2½	850	455	750	55.25	45	500	275	850	62.50
	3	2.01	35	8x8	9	2 ea. 2½	925	495	850	62.25	50	550	300	950	70.50
23 in. Diam.	2	2.67	35	8x12	9	2 ea. 3	1300	620	910	71.75	45	775	375	1050	82.00
	3	2.67	35	8x12	9	2 ea. 3	1375	675	1050	78.75	50	825	410	1060	87.00
26 in. Diam.	2	3.62	35	8x12	10	2 ea. 3	1575	785	1100	86.00	45	950	475	1210	94.50
	3	3.62	40	8x12	10	2 ea. 3	1700	865	1250	95.00	50	1025	525	1350	103.50
29 in. Diam.	2	4.35	35	12x12	10	2 ea. 4	1975	990	1300	108.75	46	1200	600	1500	117.00
	3	4.35	40	12x12	10	2 ea. 4	2150	1115	1500	120.00	51	1300	675	1680	129.00



## INDIRECT WATER HEATER WITH COPPER COIL

**\$285**  
9-inch

Use your steam boiler to heat water. Heater is attached outside boiler below water line. Heavy copper coil with brass unions. No rust. Clean water is assured. It is efficient, dependable and economical.

Article Number	For Tank	Length	Connections		Ship. Wt.	Price
			Water	Boiler		
481 HB 7829	30 gal.	9 in.	3/4 in.	1 in.	16 lbs.	\$2.85
481 HB 7830	40-52 gal.	11 in.	3/4 in.	1 in.	20 lbs.	3.85
481 HB 7831	66 gal.	13 3/4 in.	3/4 in.	1 in.	28 lbs.	5.35
481 HB 7832	82 gal.	16 3/4 in.	3/4 in.	1 in.	39 lbs.	7.85



## FIN TYPE COIL

**69c**

For quick circulation. Has five tapered openings of 3/4 in. to fit any boiler or warm air furnace requirements. Cast iron. Three plugs included to plug connections not used. Ship. wt. 8 lbs. Mailable.  
81 HB 8169—  
Each ..... 69c

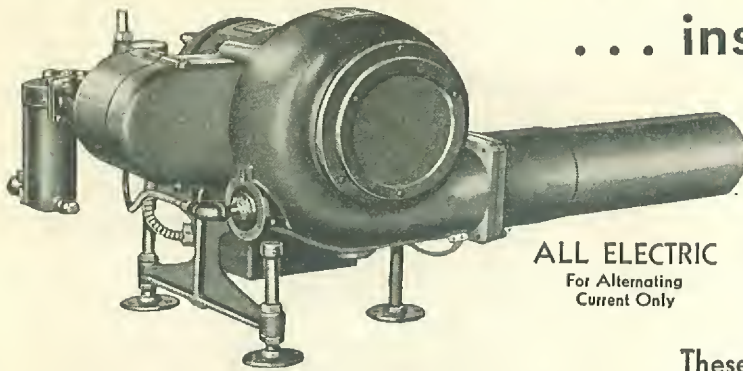
## HOT WATER COIL

**85c**

Inexpensive. Fits Wards and other furnaces. Connects to range boiler. Threaded for 3/4 inch fittings. State size of furnace. Ship. wt. 6 lbs.  
481 HB 8167—Each ..... 85c



# Make Your Old Heating Plant Lead a CLEANER LIFE ... install a Wards OIL BURNER



**ALL ELECTRIC**  
For Alternating  
Current Only

No shoveling, no waiting for the fire to "burn up," no dust, no ashes. It's entirely automatic! Start it... set your thermostat for the temperature desired, and the fire will burn only long enough to reach the desired temperature... then it stops automatically. If your room temperature drops a couple of degrees it automatically starts again. Wards Oil Burner can be installed quickly in almost any type of heating plant. Wards Oil Burner is carefully built and is so reliable in operation that its maintenance cost is very small. You can change the temperature by moving the control pointer on the room thermostat.

It's economical as it uses low-priced oil and is exceptionally quiet in operation. Can be adjusted to heat from 5 rooms to a hotel.

## These Features are Sure Proof of This Oil Burner's Quality

Listed and inspected by Underwriters' Laboratories, Inc., and bears their label.

Draft tube, transformer housing, motor support and pump assembly support are all part of one rigid casting.

High grade cushion mounted motor—meets all Utilities power requirements.

Has Penn Switch plain Room Thermostat without clock. 8-day Clock or Electric Clock thermostat may be had at extra charge.

Spun steel fan, Sirocco type, ample size, specially balanced. Mounted directly on motor shaft, insuring quietness, and maximum air delivery.

Heavy supports adjustable to any height.

Pump, Strainer and Valve assembly mounted as a complete unit. May be removed individually.

Glossy red finish. Motor is black. Draft tube with deflectors gives flame a swirling motion.

Burns No. 3 (28 degree to 32 degree gravity) Heavy Fuel Oil.

Entire nozzle assembly can be removed as unit.

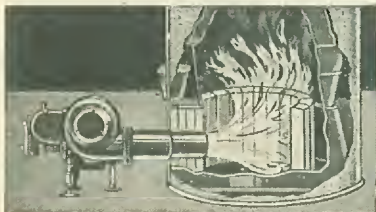
Nozzle is made in sizes ranging in capacity from 1½ to 5 gallons per hour, and in 45°, 60° or 80° angles so each installation may have best possible applications.

Has Newest Modern features that prevent interference with radio reception.

Use With Steam... Hot Water  
Warm Air or Vapor Systems

**\$157.00**  
Cash  
Price

**\$15 DOWN**  
**\$12 MONTHLY**  
See Page 3



Here's How It Operates

All Parts of  
Wards Oil Burner  
are Standard Design  
and Make...You Do  
Not Have to Pay  
Excessive Prices for  
Specially Designed  
Replacement Parts

**OIL BURNER COMPLETE** with Penn Switch Thermostat (without clock), limit control and combustion control but without oil tanks, piping or electric wiring, etc. State whether you have warm air furnace, hot water, steam or vapor boiler and the amount of standing radiation or warm air pipe area in square inches and we will furnish exactly the proper limit control and correct size nozzle. Ship. wt. 180 lbs. *Shipped from factory near Marshalltown, Iowa.* Estimated Freight Charges under "Oil and Gas Burners" on Page 2. Write Wards Engineering Service Department for free information.

281 HB 8145—With controls for up to 1600 sq. feet steam radiation or equivalent..... **\$157.00**

**OIL STORAGE TANKS** Shipped separately from Factory in Chicago, or near Philadelphia, Pa. Estimated Freight Charges under "Storage Tanks" on Page 2.

281 HB 7502—Standard Basement Storage Tank, with oil gauge, and stand, height 27 inches, width 44¼ inches, length 66 inches. Cap. 275 gals. Ship. wt. 310 lbs. .... **\$22.45**

281 HB 7501—Underwriters' Labelled Underground Storage Tank. Diameter 48 inches, length 72 inches. Capacity 550 gallons. Ship. wt. 800 lbs. .... **38.50**

281 HB 7501—Underwriters' Labelled Underground Storage Tank. Diameter 64 inches, length 72 inches. 1000-gallon size. Ship. wt. 1200 lbs. .... **54.00**

# Wards Heavy Duty Boiler

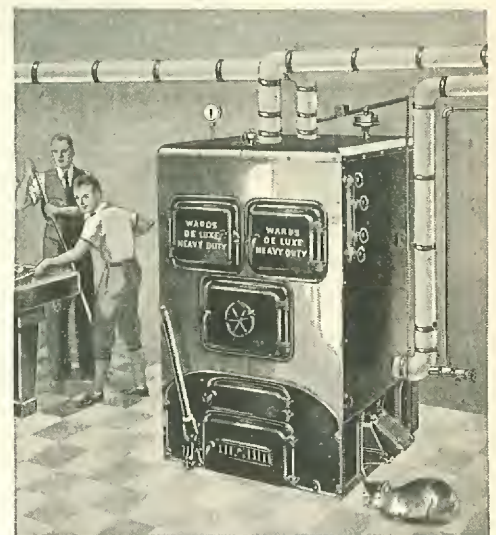
For Large Homes... Schools... Apartment Buildings

Here's the boiler for a lifetime of service. Use where the cost of operation makes it highly important to have the most efficient heating plant. As the combustible gases are distilled from the burning coal they are mixed with air and burned thoroughly. The fire travel is three times the length of the boiler; first to the rear, then front through the lower flues, and finally back to the rear where it leaves through the smoke outlet. Wards De Luxe Heavy Duty Boiler is especially adapted to burning oil on account of its large combustion chamber. Heating surfaces are arranged to extract practically all useful heat from the hot gases.

For Hot Water, Steam and Vapor Systems—Burns Coal or Oil

Furnished with rocker type grates which are reinforced with double bridge webs to support an unusually large bed of coals. Shipped in sections for convenient handling through doorways. Smoke pipe collar 10 inches on 21-inch boilers, 12 inches on 25-inch. Water line, 43 inches on 21-inch, 45 inches on 25-inch. Jacketed boilers complete

with steam or hot water trimmings. If you need larger sizes write us for prices. *Boilers Shipped from Warehouse in Chicago, Boston, Glendale, L. I., Philadelphia or McKeesport. State size. See Est. Freight Charges under "Boilers Cast Iron Heating" on Page 2. Buy on Wards Budget Plan if you wish—for details See Page 3.*



6-Section Water Boiler  
Without Jacket

**\$149.50**  
Cash  
Price

Wards BUDGET PLAN  
\$12.50 Down—\$10 Monthly

## Wards De Luxe Heavy Duty Hot Water Boiler—State Size Wanted

No. of Sect.	Grate Size In.	Grate Area Sq. Ft.	Chimney Required		Tappings		Rated Cap. Sq. Ft.	Actual Load Sq. Ft.	Approx. Ship. Wt. With Jacket	281HB7868 With Jacket	App. Ship. Wt. Less Jacket	281HB7870 Without Jacket
			Height	Flue In.	Supply Inches	Return Inches						
6	21	4.92	35 ft.	9x13	2-3	2-4	2200	1100	2300 lbs.	\$166.00	2100 lbs.	\$149.50
7	21	5.83	35 ft.	13x13	3-3	2-4	2600	1300	2600 lbs.	184.00	2400 lbs.	165.95
6	25	6.74	35 ft.	13x13	2-4	2-5	2800	1350	2675 lbs.	202.45	2500 lbs.	182.50
7	25	8.00	40 ft.	13x13	3-4	2-5	3400	1650	3050 lbs.	218.00	2800 lbs.	192.50
8	25	9.22	40 ft.	13x13	3-4	2-5	4000	1900	3400 lbs.	238.00	3100 lbs.	213.50
9	25	10.44	45 ft.	13x13	3-4	2-5	4200	2200	3775 lbs.	254.50	3400 lbs.	229.50

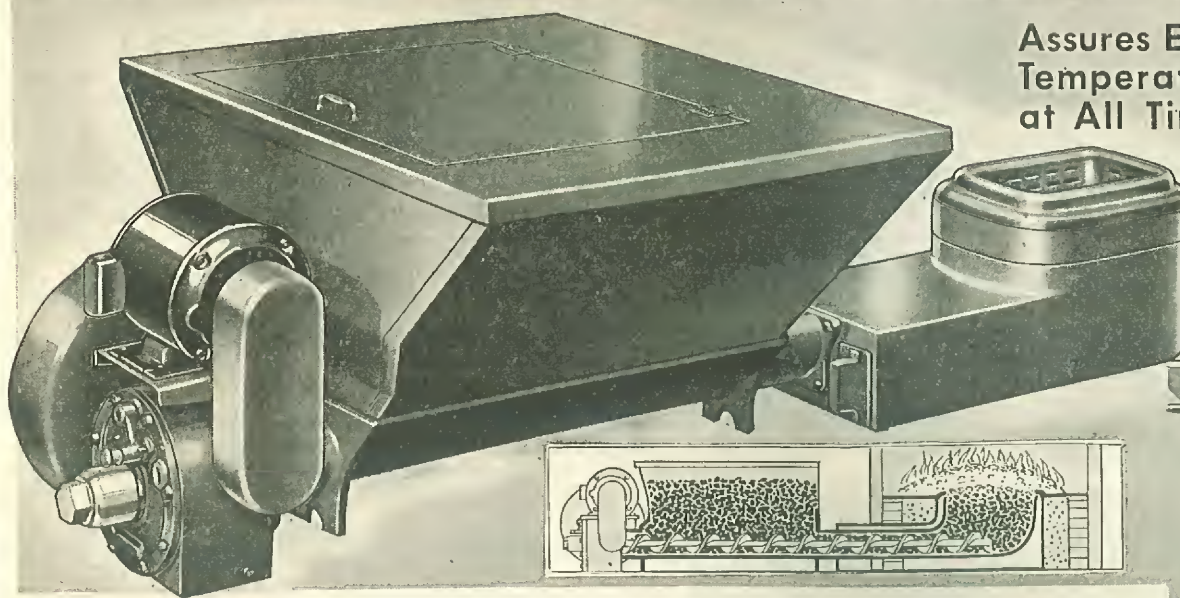
## Wards De Luxe Heavy Duty Steam Boiler—State Size Wanted

No. of Sect.	Grate Size In.	Grate Area Sq. Ft.	Chimney Required		Tappings		Rated Cap. Sq. Ft.	Actual Load Sq. Ft.	Approx. Ship. Wt.	281HB7869 With Jacket	App. Ship. Wt. Without Jacket	281HB7871 Without Jacket
			Height	Flue In.	Supply Inches	Return Inches						
6	21	4.92	35 ft.	9x13	2-3	2-4	1400	650	2375 lbs.	\$166.00	2175 lbs.	\$149.50
7	21	5.83	35 ft.	13x13	3-3	2-4	1600	750	2675 lbs.	184.00	2475 lbs.	165.95
6	25	6.74	35 ft.	13x13	2-4	2-5	1800	850	2750 lbs.	202.45	2525 lbs.	182.50
7	25	8.00	40 ft.	13x13	3-4	2-5	2200	1050	3125 lbs.	218.00	2875 lbs.	192.50
8	25	9.22	40 ft.	13x13	3-4	2-5	2600	1200	3475 lbs.	238.00	3175 lbs.	213.50
9	25	10.44	45 ft.	13x13	3-4	2-5	3000	1400	3850 lbs.	254.50	3475 lbs.	229.50



# Automatic Coal Heat with Wards Stoker

## ELIMINATES HAND FEEDING . . . CUTS HEATING BILLS



Assures Even  
Temperature  
at All Times



Clean heat . . . automatic heat . . . with coal, the cheapest of all fuels! Wards offer you a modern, up-to-the-minute Automatic Coal Stoker to relieve you from dirt and the unpleasantness of frequent trips to the basement. This stoker asks just one thing: that the hopper be filled occasionally with coal.

Not just cleaner . . . more convenient . . . Wards Stoker firing is far, far more economical than hand firing. It burns the small sizes of coal, which cannot efficiently be fired by hand. Coal costs less in these sizes, yet you get more heat from it than from lump coal, hand fired. Tests show this stoker will reduce your coal bills 20 to 50%. It is 40 to 70% less expensive to operate than an oil furnace; 50 to 80% less expensive than a gas furnace.

Most important of all are the advantages of forced underfiring. As shown in the small diagram above, the feed worm forces coal upward, under the fire. Coal is slowly preheated, volatile gases passing upward, through the fire where they are burned. Coked coal is burned when it reaches the top. There is no smoke. No costly fuel waste. No Ash. A firm clean clinker forms around the fire and is easily removed with a hook specially provided.

Wards stoker is adapted to any kind of heating plant—warm air, steam, or hot water. Automatic Controls are furnished which maintain any desired temperature. A touch of your hand on the wall thermostat and the Stoker automatically changes the temperature in your house.

All parts have been made heavier and stronger than is the general practice to insure long life. 300-lb. capacity.

Hopper and duct are of heavy copper bearing metal. Conveyor of one piece cast nickel chrome alloy steel especially designed for this severe service.

The sturdy electric motor drives the feed conveyor through a carbonized alloy steel worm gear. All gears are totally enclosed in an oil bath providing unfailing lubrication. Multi-blade fan provides a force draft to burn fuel most economically.

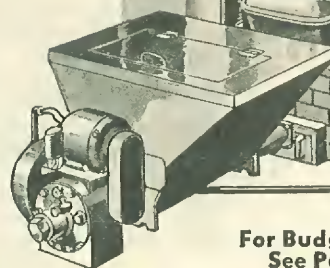
Easily installed—the entire job can be done in a few hours. We furnish complete instructions. Complete with all automatic controls—thermostat, high-limit control and hold-fire control—and clinker remover included. Operates on 110 to 120-volt, 60-cycle A.C. Monthly Payments on Page 4. Freight Charges on Page 3 under "Furnace Fittings." For larger installations, write to Wards Free Engineering and Service Department. Ship. wt. complete 450 lbs. Shipped separately from factory in Chicago.

281 HB 1350—Complete . . . . . \$195.00

Completely Enclosed Stoker

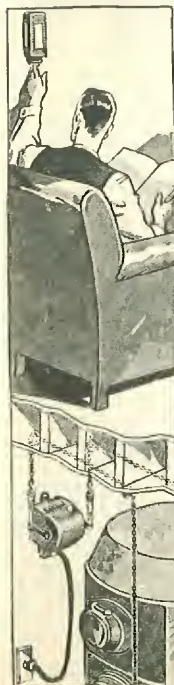
281 HB 1355—Same unit with hopper, motor, gear-box, and blower completely covered by one case. Not shown. Ship. wt. 500 lbs. . . . . \$219.00

**\$195.00**  
Cash  
Price  
**\$20 Down**  
**\$12 a Month**



For Budget Plan  
See Page 3

## Control Your Furnace from Your Easy Chair



**\$14.95**  
Complete with  
Thermostat

You can control the temperature of your house from your easy chair with Wards Automatic Heat Control. Suppose you want a room temperature of 70°. Just set your thermostat at 70 and electric controls will automatically operate the draft or check damper of your furnace or boiler to maintain that temperature. A touch of your finger on the thermostat will change the temperature at any time. No running up and down stairs.

Gone are all wastes of overheating . . . or discomforts of chilly, underheated rooms. Wards Heat Control eliminates the threat of sickness from uneven temperatures. Your house is always at the temperature you like best—always comfortably warm, but never too hot. Baby can play on the floor without catching cold.

These outfits soon pay for themselves, by maintaining even temperatures, they economize on fuel. They make it easy to keep a low fire in your furnace or boiler overnight. Just set your thermostat down—the fire is kept burning slowly all night. You won't waste heat in sleeping hours, yet you're sure of a warm fire in the morning.

The handsome thermostat is mounted on wall of living room—or wherever most convenient. Nothing else shows. Hidden wires run to the basement where the sturdy electric motor operates check draft and damper by chains and pulleys. Everything is automatic—trouble-proof.

Outfit furnished complete with thermostat, electric motor with transformer, 30 feet of thermostat cable, 4 pulleys, insulated staples, and mounting screws. Complete instructions make installing an easy job.

81 HB 7670—Uses 110 to 120-volt, 60-cycle A.C. Ship. wt. 10 lbs. Mailable . . . . . \$14.95

## Wake Up in A Warm House

30-Hour Clock  
Thermostat Outfit

**\$19.85**  
Complete  
Outfit

Let a clock do your early morning furnace tending! Has all the advantages of the unit at left—and in addition, has a 30 hour clock thermostat. When you go to bed, you cool the house by setting back the thermostat; and set the clock, say—six in the morning or any hour you wish.

Promptly at that hour, the clock snaps the thermostat over to the temperature you set—and your house is automatically warmed. No more jumping out of bed to fire the furnace! Just wind and set daily. Electric motor with thermostat uses 110 to 120-volt, 60 cycle A.C. Chain, pulleys and all fittings included.

81 HB 7671—Ship. wt. 11 lbs. Mailable . . . . . \$19.85



Eight-Day Clock  
Thermostat Outfit

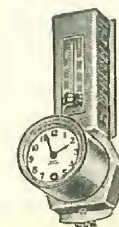
**\$32.45**  
Complete  
Outfit

The last word in Heat Control Outfits! 8-day Clock thermostat has two sets—one to cool house at night, one to warm it in the morning. Solves all temperature worries.

When the outfit is installed, you set the day-time and night dials at the hours you choose. No need to touch it again, except to wind the clock once a week.

Electric controls will warm your house in the morning—and automatically cool it at night. Outfit includes 8-day clock thermostat, electric motor (for 110 to 120-volt, 60 cycle A.C.), chains, pulleys, instructions, and all fittings as in outfit at left.

81 HB 7672—Ship. wt. 12 lbs. Mailable . . . . . \$32.45

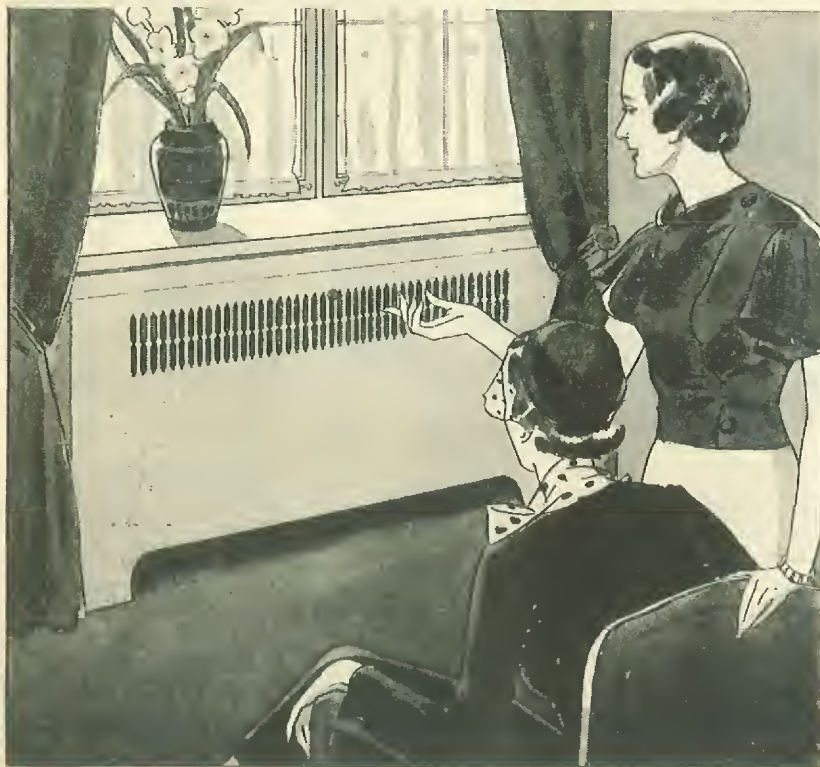


Protect the New Job with GOOD Paint . . . See Wards General Catalog

★CBA MONTGOMERY WARD 51



# "the Answer My Dear is COPPER RADIATION..."



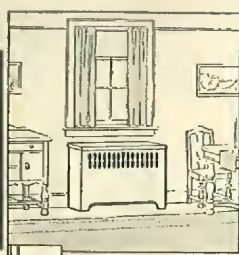
Old style radiators took up so much space that I decided to replace them with these modern heating units that fit right in the wall. That pretty little grill under the window is all you see . . . and have you noticed that our house is warmer than it's ever been before?"

Mrs. C is just one of the many homemakers who praise this new type of heating system. It enables you to put furniture where you want it without having to allow for a lot of bulky radiators.

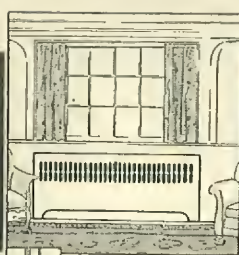
Three types . . . completely concealed, partly recessed cabinets, or exposed cabinets. They take little space, and painted the color of your walls, their smart lines add greatly to the appearance of the room. This modern heating system costs no more for fuel than ordinary radiators, and because it is clean heat it keeps down decorating costs. It is simple and inexpensive to install.



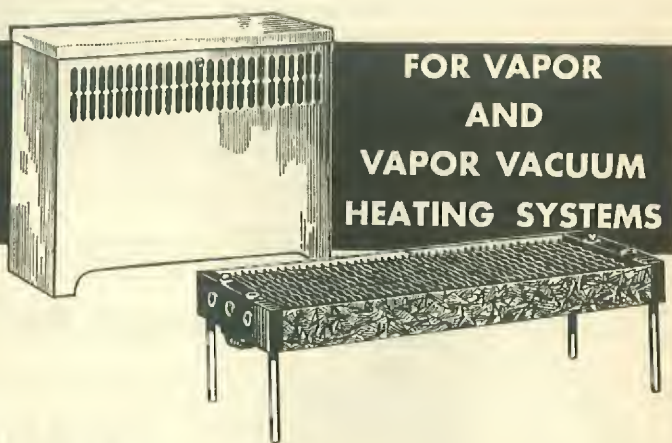
**PARTLY RECESSED CABINET TYPE**—for use in walls or under windows where wall depth only permits partly recessing.



**FLOOR-CABINET TYPE**—Complete assembled cabinet. May be used to replace present cast iron radiators. Requires no recessing.



**BUILT-IN-WALL TYPE**—with removable metal panel front that fits flush with wall or extended front.



## Copper Radiation costs less than Cast Iron Radiation with Enclosures

Steel cabinets and metal panel fronts are finished with a prime coat of dull gray—ready for finishing to conform with any color scheme. Connection to the pipes is same as in cast iron work, but installation is much easier because the unit is much lighter and easier to handle.

The cost per radiator, either partly recessed, panel front or fully exposed cabinet style is no more than for a cast iron radiator with enclosure.

You will be surprised how little it will cost to install a new, modern heating system or even to modernize your present system.

We believe that this is the most efficient heating unit ever devised for vapor and steam systems, because it uses the principle of air circulation to carry heat. Made of best quality materials and designed for a maximum heating surface with minimum resistance to air flow. Closely spaced copper radiating fins, bonded to copper tubes, give off heat quickly. The tubes are extra heavy and tested to withstand tremendous pressure.



## LET OUR ENGINEERING DEPARTMENT PLAN YOUR RADIATION

We will do all the planning and figuring for your heating job—tell you what size boiler or furnace you need, what type, size and how many radiators you should have and how much pipe, etc.—and how to install it yourself.

If you are remodeling, write and tell us details of your present system and we will tell you whether or not you can use copper radiation. This type of heating is not applicable to all systems. Inserted in this book is a Heating Inform.

Blank Number 12681 which makes it easy for you to send us all information we need to make a complete estimate of the cost of a heating system for your property. See Page 36.

When you use the services of Wards Engineers, you'll have the comforting certainty that your heating plant will be efficient and will heat your whole house as you want it heated. Their valuable advice is **FREE**, and is given to you *before you spend a cent!*



# CAST IRON RADIATION with Trim Modern Lines

Slimmer Tubes and More of Them for

Better Looks and Greater Heating Surface

... and here are the New Slim-Tube Radiators—the type of cast iron radiation that is specified by up-to-date architects. *They're Modern*—classic stream-line design. *They're more Efficient*—the slender tubes and wide spacing with proper proportion of heating surface to air space increases the amount of heat radiated amazingly. *They're Convenient*—may be installed under windows, along walls—almost anywhere. *They're Dependable*—high quality cast iron, perfectly machined, assures trouble-free installation. *They're Priced Right*.

## Here's How to Figure Radiator Heating Surface

Wards ENGINEERING SERVICE DEPT. will advise you how many square feet of radiation your home requires; if you will just write us. If you already know your requirements, you can figure the number of sections of each radiator by dividing the square feet required by the square feet given for each section. To determine length, multiply number of sections by the thickness of each section.

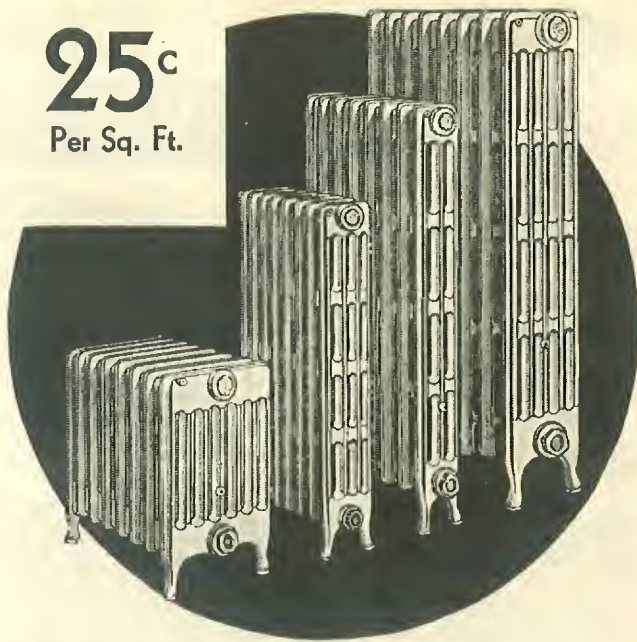
## Freight Rates and Shipping Points

For Wards Budget Plan of Monthly Payments see Budget Plan, Page 3. *Shipped from Warehouse in Washington, Dunkirk, Long Island City, Utica, Boston or McKeesport.* For total weight of radiators multiply the total amount of radiation in square feet by the shipping weight per square foot which is 5½ lbs. For Freight Rates see "Cast Iron Heating Radiators," Page 2.

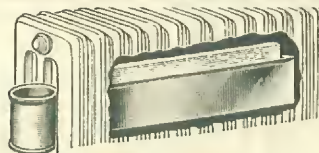
*Note:* Wall radiators and radiation in sizes and tubes not listed in the table below can be had. Write us for any information you need.

	Height of Radiator	Width of Radiator	Square Feet Per Section	Price Per Section
3-Tube Radiators.....	36 in.	5½ in.	3½	88c
281 HB 7873—Steam.....	30 in.	5½ in.	3	75c
281 HB 7863—Hot Water.....	26 in.	5½ in.	2½	58c
	20 in.	5½ in.	1¾	44c
4-Tube Radiators.....	36 in.	6½ in.	4¼	\$1.06
281 HB 7872—Steam.....	30 in.	6½ in.	3¾	88c
281 HB 7864—Hot Water.....	26 in.	6½ in.	2¾	69c
	20 in.	6½ in.	2¼	56c
5-Tube Radiators.....	36 in.	8½ in.	5	\$1.25
281 HB 7895—Steam.....	30 in.	8½ in.	4½	1.08
281 HB 7865—Hot Water.....	26 in.	8½ in.	3½	88c
	20 in.	8½ in.	2½	67c
7-Tube Radiators.....	26 in.	12 in.	4¾	\$1.19
281 HB 7897—Steam.....	20 in.	12 in.	3½	92c
281 HB 7867—Hot Water.....	16½ in.	12 in.	3	75c
	13½ in.	12 in.	2½	63c

25¢  
Per Sq. Ft.



## RADIATOR AIR MOISTENERS

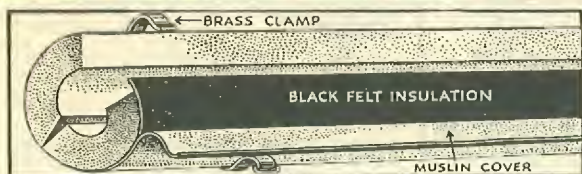


Medical authorities recommend and universities teach the necessity of proper humidity in the home. Moistener slides in the center of radiator, costs nothing to operate—just keep filled with water. Gold finished metal. Ship. wt. 3 and 5 lbs.  
81 HB 7934—Size 17 in. .... 59c  
81 HB 7935—Size 27 in. .... 69c



Hangs on back of radiator out of sight. Healthful. Protects furniture from drying out. Galvanized steel painted gold bronze. Holds 4 qts. Ship. wt. each 2 lbs.  
581 HB 7936—Each... 33c  
Three for..... 94c

## Get all the heat you pay for • INSULATE YOUR PIPES NOW



### Wool Felt Covering

Keeps hot and cold water pipes in outside walls from freezing. Layers of Asbestos felt, muslin covered. Keeps pipes from sweating and dripping during the summer. Lacquered brass bands for fastening. 3-foot lengths only. *State pipe size. Shipped from Factory near Philadelphia, Pa.* For Estimated Freight Rates see Page 2. Budget Plan Page 3.

Article Number	Thick-ness	Length	To Fit Standard Pipe Sizes—Inches									
		Feet	Price per Length									
Pipe size inches.....			½	¾	1	1¼	1½	2	2½	3	3½	4
281HB7926—¾ in. 3			26c	29c	32c	36c	40c	43c	48c	54c	60c	72c
Ship. wts. lbs. ....			1½	2	2½	3	3½	4	4½	5	6	6
281HB7930—1 in. 3			30c	32c	36c	41c	45c	49c	54c	61c	68c	81c
Ship. wts. lbs. ....			1½	2	2½	3	3½	4	4½	5	6	6

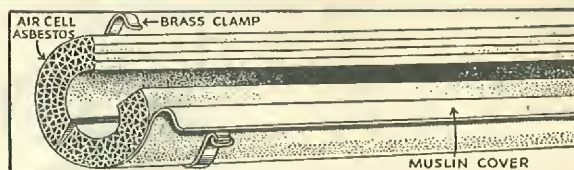
### Wards Engineering Service Department

Wards maintain a staff of skilled heating engineers to answer without charge any questions that you may have, or to aid you in planning your heating installation. Write Wards Engineering Service Dept., and ask for Free Estimate Form No. 12681-2.

Laboratory Tests Show  
a 15% to 18%  
Savings on  
Fuel



Laboratory Tests have definitely proved that the use of insulating materials results in greatly increased efficiency and a 15 to 18 per cent fuel saving, whether you burn oil, gas, coke or coal.



### Air Cell Covering

For pipes of hot water and steam plants. Lacquered brass bands for fastening. In 3-foot lengths only. *State pipe size. Shipped from Factory near Philadelphia, Pa.* For low Freight Rates see Page 2.

Article Number	Thick-ness	Length	To Fit Standard Pipe Sizes—Inches									
		Feet	Price per Length									
Pipe size inches.....			½	¾	1	1¼	1½	2	2½	3	3½	4
281HB7927—¾ in. 3			19c	20c	23c	25c	28c	30c	34c	38c	42c	50c
Ship. wts. lbs. ....			1½	2	2½	3	3½	4	4½	5	6	6
281HB7928—1 in. 3			24c	26c	29c	32c	36c	39c	43c	49c	54c	65c
Ship. wts. lbs. ....			1½	2	2½	3	3½	4	4½	5	6	6

### Wards Budget Plan of Monthly Payments

All orders of \$20 or more may be purchased on Wards Budget Plan of Monthly Payments. A single down payment and the balance monthly is all we require. It permits you to enjoy the use of it while you're paying for it. For more complete details see Page 3.

## ASBESTOS FIBER CEMENT



A compound of asbestos fiber and cement. For covering heating boilers, pipes, fittings and bends in pipe lines. A 100-lb. bag covers 20 sq. ft. one-inch thick. *Shipped from Factory near Philadelphia.* For Freight Rates see Page 2.  
281 HB 7931—25-lb. bag. .... 59c  
100-lb. bag. .... \$1.65  
81 HB 7933—DRY PASTE for fastening asbestos paper to furnace pipes. Ship wts. 2 lbs. 8 oz. and 6 lbs.  
2-lb. bag. .... 19c; 5-lb. bag. .... 39c

## ASBESTOS CEMENT



For sealing joints in furnaces and stoves. Made of fire-proof material. Ship. wts. 3, 6 and 11 lbs.  
81 HB 7918—  
2-lb. can. .... 15c  
5-lb. can. .... 30c  
10-lb. can. .... 55c

## ASBESTOS PAPER



Covers walls, furnace pipes, etc. In rolls 18-in. wide.  
481 HB 7940—State size.  
Approx. 60-ft. Wt. 11 lbs. .... 69c  
Approx. 150-Ft. Wt. 26 lbs. .... \$1.70  
Approx. 300-Ft. Wt. 52 lbs. .... 3.25

## WARDS PAINT FOR RADIATORS

Wards Certified Flat Wall Paint is the best finish we know of for steam or hot water radiators. It permits more radiation than an enamel. For aluminum or Gold Enamel and other Flat Wall Paint colors for radiators, see Wards general catalog. Colors:

200—White 204—Light Cream 270—Pearl Gray  
256—Ivory 202—Light Buff 232—Ivory Tan

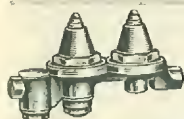
State article number and color number.

75 HB 8085—1 pt. Ship. wt. 2 lbs. 8 oz. .... 32c  
575 HB 8086—1 qt. Ship. wt. 4 lbs. 8 oz. .... 55c  
575 HB 8088—1 gal. Ship. wt. 16 lbs. .... \$1.85



# HOT WATER . . STEAM and VAPOR ACCESSORIES

## SUPPLIES FOR HOT WATER SYSTEMS



**Wards Automatic HOT WATER Pressure Regulator**

Economical—automatic. Will add water to system and maintain a constant proper pressure. Speeds circulation. Saves fuel. Constructed throughout of highest quality brass and bronze. Threaded for 1/2-inch pipe connections. Easily installed. Instructions included. *Mailable.* Shipping weight 10 pounds.  
81 HB 7892.....\$8.65



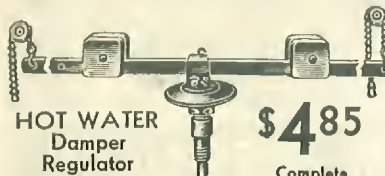
**Hot Water Radiator Valve**  
Solid brass, heavily nickel-plated. Complete with union. *Mailable.*  
81 HB 7900—State size.

Pipe Size	Ship. Wt. Lbs.	Each
3/4 inch	1 lb. 8 oz.	87c
1 inch	2 lbs. 8 oz.	\$1.05
1 1/4 inch	2 lbs. 12 oz.	1.30
1 1/2 inch	3 lbs. 4 oz.	1.65



**Pressure Relief Valve**

Entirely automatic. Prevents excessive pressure due to overheating of closed hot water heating systems. Set for pressure of 30 lbs. Easily installed. Listed by Underwriters' Laboratories, Inc. *Mailable.* Shipping weight 7 pounds.  
81 HB 5416—Each.....\$3.60



Regulates draft and check damper according to water temperature. Complete with lever, weights, pulleys and chain. Japanned steel body. Threaded for 1-inch boiler connection. Shipping weight 10 lbs.  
81 HB 7858.....\$4.85

**Combined Altitude, Pressure and Thermometer Gauge**  
Registers height, pressure and temperature of water. For closed or gravity hot water heating systems. 3 1/2-in. face. Threaded for 1/4-inch pipe connection. *Mailable.* Ship. wt. 12 oz.  
81 HB 7923.....\$1.65

**Hot Water Thermometer**  
White enameled metal thermometer. Scale is graduated from 60 to 260 degrees Fahrenheit. Threaded 1/2-inch iron pipe. *Mailable.* Shipping weight 6 ounces.  
81 HB 7910.....55c

**Radiator Key Air Valves**  
Brass, nickel-plated, 1/2-in. thread. *Mailable.* Shipping weight each 3 ounces.  
81 HB 7912—Valve only.....6c  
81 HB 7915—Key only.....3c

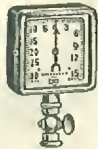
**Boiler Stop Leak Liquid**  
Stops boiler leaks quickly and effectively. Removes and prevents scale formation. Instructions included. *Mailable.* Shipping weight 3 lbs. 8 oz.  
81 HB 5610—1-qt. can....59c

## VAPOR SPECIALTIES



**Modulating Packless Valve**

For vapor or vacuum. Leak-proof. Quick opening. Graduated dial, with wheel or lever handle. Nickel-plated bronze. *Mailable.* Shipped from Eastern Pennsylvania. Ship. wts., 1 lb. 8 oz., 2 lbs., 2 lbs. 8 oz. State type of handle and size.  
281 HB 7600—With union.  
Pipe size, inches... 1/2 3/4 1  
Radiation Cap. sq. ft. 25 65 125  
Each.....\$2.35 \$2.75 \$3.25



**Compound Retard Gauge**

Registers Pressure and Vacuum. 3 1/2-in. face, black steel case. With stop cock. Threaded 1/4 in. Ship. wt. 1 lb. 4 oz. *Mailable.*  
81 HB 7942.....\$1.65



**Air Eliminator**

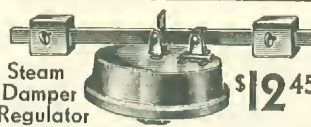
Vents air from vapor systems, at one central point in basement, with less pressure than is possible with individual vents on radiators. Vents air quickly from systems having up to 2000 sq. ft. of radiation. Shipped from stock.  
81 HB 7605—Ship. wt. 9 lbs....\$7.50

**Thermostatic Radiator Trap**

For vapor, vacuum and low pressure steam. Self-aligning thermal unit. In angle, right or left corner offset or straight patterns. Nickel-plated bronze. *Mailable.* Shipped from Factory in Eastern Pennsylvania. Ship. wts., 1 lb. 8 oz. and 2 lbs. State pattern and size.  
281 HB 7601—With union.  
Pipe size, inches... 1/2 1  
Radiation Cap. sq. ft. 200 400  
Each.....\$3.75 \$4.50

**Steam Gauge**

Registers pressure up to 30 lbs. 3 1/2-in. face, black case and chromium plated rim. Threaded 1/4 in. Ship. wt. 1 lb. *Mailable.*  
81 HB 7943.....\$1.15



281 HB 7611—Responds to pressure variations of 1 ounce, opens or closes check and draft. 7-in. diaphragm. Lever, chain, pulleys, weights included. 1-in. thread. Shipped Separately from Factory in Chicago. Ship. wt. 35 lbs....\$12.45

**Boiler Return Trap**

For vapor or low pressure steam systems. An efficient, positive device for returning condensation direct to the boiler. Prevents damage to the boiler due to water becoming locked in the system. Capacity 1500 sq. ft. radiation. No adjusting; positive, simple and noiseless. Heavy outside casting of high grade cast iron. Inlet and outlet tapped 2 in. Instructions included. Shipped from Factory in Eastern Pennsylvania. Shipping weight 90 pounds. For Low Freight Rates see Page 2 under "Boiler Parts."  
281 HB 7604—Complete with water gauge....\$39.75

## EXPANSION TANKS



**Tank for Hot Water Gravity Systems**

**\$620** For installation in attic or other high point in system. Heavy galvanized steel, welded and riveted. Standard tapings for pipe connections. *Not Mailable.* Shipped from Stock. For Low Freight Rates on Expansion Tanks see Page 2 under "Galvanized Tanks."  
181 HB 7905—State capacity tank wanted.

Capacity in Gallons	Size, In.	Radiation Capacity	Ship. Wt.	Each
15 gal.	12x30	500 sq. ft.	43 lbs.	\$ 6.20
20 gal.	14x30	700 sq. ft.	58 lbs.	7.95
26 gal.	16x30	950 sq. ft.	68 lbs.	9.85



**Basement Tanks**  
18-Gallon

For Hot Water Closed or Pressure Systems. Located on the basement ceiling about 5 feet away from the boiler. Rolled copper bearing steel, painted red. Two 1-inch tapings. *Not Mailable.* Shipping weights, 47, 58, and 65 pounds. See Low Freight Rates on Page 2 under "Galvanized Tanks."  
181 HB 7906—State capacity tank wanted.

Capacity in Gallons	Size, In.	Radiation Capacity	Each
18 gal.	12x36	350 sq. ft.	\$5.35
24 gal.	12x48	600 sq. ft.	6.35
30 gal.	12x60	800 sq. ft.	6.95

## SUPPLIES FOR STEAM OR VAPOR SYSTEMS

**Automatic Air and Vacuum Valve**

Use this chrome plated valve on radiator, and one listed below for mains or return lines, to make gravity steam system into vacuum heating system. Saves fuel, radiators stay hot longer. Bronze ball prevents air from being drawn into system when steam pressure goes down. Brass float. Chrome plated shell. Stem of nickel alloy.  
81 HB 7971—Ship. wt. 4 oz.....\$1.15  
81 HB 7973—With straight shank for main and return line. 1/4-in. pipe thread. Ship. wt. 8 oz.  
*Mailable*.....\$1.35



**No. 1 Automatic Syphon for Steam Radiators**

Automatic. Frees radiator of air, closes against steam. Chrome-plated. Metal thermostat float. Wt. 4 oz. *Mailable.* Each.....75c  
81 HB 7972—With 1/4-in. straight shank for mains, return lines, coils. 1/4-in. pipe threads. Ship. wt. 4 oz. *Mailable.* Each.....95c



**Vacuum Radiator Valve**

Heavily chromium-plated. For steam radiators. Keeps air out of system, maintains more even temperatures. Syphon tube keeps valve free of water. 1/2-inch pipe thread. *Mailable.*  
81 HB 7989—Ship. wt. 4 oz. Each.....95c

**Syphon Radiator Valve**

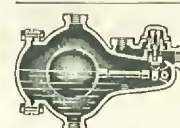
Automatic float type Syphon Valve. Syphon tube prevents splutter in radiators. Noiseless in operation. Shell is highly nickel-plated to resist rust. Non-adjustable 1/2-inch pipe thread. Ship. wt. 3 oz.  
81 HB 7976—Each. *Mailable*.....29c

**Steam Radiator Valve**

Brass, nickel-plated. Complete with Union. *Mailable.*  
81 HB 7901—State size.



Pipe Size Inches	Ship. Wt.	Each
3/4	1 lb. 12 oz.	95c
1	2 lbs. 4 oz.	\$1.20
1 1/4	3 lbs.	1.50
1 1/2	4 lbs. 12 oz.	1.90



**Steam Boiler Water Feeder**

This "boiler watchman" adds water to the boiler as required. Cast iron. Working parts are brass and monel metal. Tapped for 1/2 and 1 inch pipe. *Mailable.* Shipped separately from Factory in Chicago, Ill.  
281 HB 7610—Ship. wt. 55 lbs....\$32.50

## HOT WATER and STEAM SUPPLIES



**Union Elbows**

Brass, nickel-plated. To be used with hot water or steam radiator valves. *Mailable.*  
81 HB 7904—State size wanted.

Pipe size.....	3/4 in.	1 in.	1 1/4 in.	1 1/2 in.
Ship. wt. ....	12 oz.	1 lb. 4 oz.	1 lb. 12 oz.	2 lbs. 4 oz.
Each.....	47c	59c	79c	\$1.00



**Adjustable Pipe Hangers**

Adjustable iron strap, lag screw and hanger ring. Complete with bolts. Ship. wts. 8 oz. to 4 lbs.  
81 HB 7946—*Mailable.* State size.  
Pipe size, in.... 3/4 1 1 1/4 1 1/2  
Each..... 7c 8c 9c 10c  
Pipe size, in.... 2 2 1/2 3 4  
Each..... 12c 15c 18c 25c



**Floor and Ceiling Plates**

Nickel-plated. *Mailable.* Ship. wts. 2 to 6 ounces.  
81 HB 8259—State size.  
3/4-in. 1-in. 1 1/4-in. 1 1/2-in. 2-in.  
6c 7c 8c 9c 10c



**Boiler Flue Brush**

Steel wire. Threaded for 1/4-in. pipe handle. *Mailable.* Shipping weight 1 pound.  
81 HB 7891—Each....39c



# WARDS SAVE YOU MONEY ON EVERYTHING YOU NEED

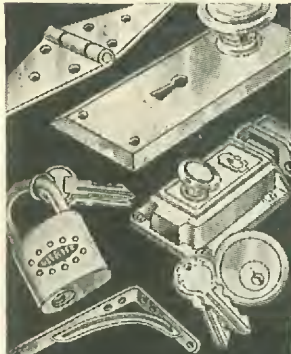
**If You Don't See it Here, Look in Our General Catalog**

**S**OMETHING you are looking for? Some high grade varnish for your new front door? Yes, of course we have it. You'll find it in our General Catalog. And there are the tools you will need if you plan on doing your own remodeling—wiring materials, paints and a lot of other high grade home remodeling needs—complete lines too extensive to show in this catalog.

Pick up your copy of *Wards General Catalog*. Turn to

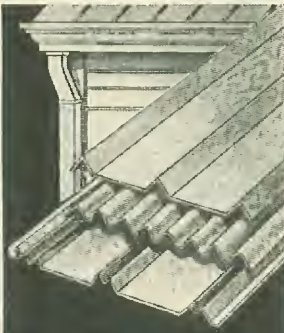
the great Home Modernization Department. It's full of ideas to make your home more comfortable, more convenient, better looking—and actually a better market value. Savings on everything you order. You always pay less when you purchase by mail.

If there's something you can't find in our General Catalog, something special, write our Engineering Service Department. They'll gladly quote you prices without obligation.



## HARDWARE

Turn to our general Catalog for complete selection of Lock Sets, Window, Cabinet and Door Hardware. We offer a choice of many designs and finishes to fit the architecture of most any home. Garage and Barn Door Hardware, Nails, Screws—everything at substantial savings.



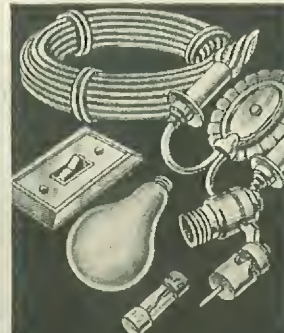
## METAL ROOFING

There is no finer metal roofing made than Ward's new 2-oz. ZINC COATED COPPER-STEEL ROOFING. Read in our general catalog why it lasts longer—how easy it is to apply—how much you save buying it by mail. You can also make a savings on Eaves Traugh and fittings, either galvanized steel or copper.



## PAINTS

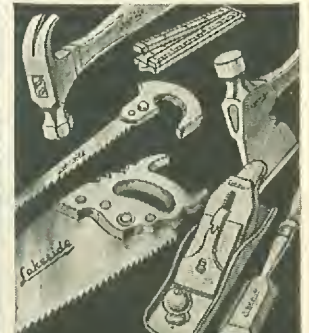
When you need paint, varnish, enamel, lacquer or even a brush, don't forget to use your copy of Ward's general catalog. Quality paints add protection, charm and beauty to your home. We make them all in our own factory and know what is in every can. Selling them direct to you by mail assures lower prices—always.



## ELECTRICAL

Over 1,000 items in our electrical department. Anything you may need to completely wire your home. Lighting fixtures, fuses, switches, power motors, or even a complete lighting plant—everything at sensibly low prices.

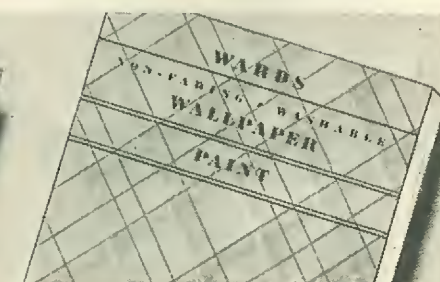
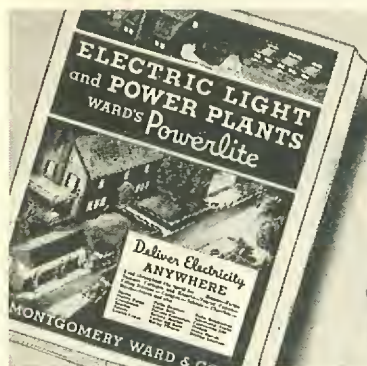
Complete wiring for a 5-room house can be bought at Ward's for about \$34.95.



## TOOLS

Whether an expert or just a handy man, you'll find a lot of satisfaction shopping through our hardware department. Ward's Lakeside Brand always represents a fine quality. You'll find many other famous names, too. There's everything from a nail or bolt to a complete workshop.

# Send Coupon for these FREE CATALOGS



## Wall Paper Sample Book

Save 1/4 to 1/2 on Washable, Fadeproof Wall Paper. Latest patterns and colors for long-lasting beauty. Some as low as 6c a single roll.

Send today for your free copy of Wards Sample Book showing side wall patterns and borders printed together so you can see in advance how your rooms will look.

## BRING CITY LIGHT INTO YOUR HOME

### Economically with Powerlite

See how little it costs to have good light in your home, barn and dairy. Wards have an A.C. 110-Volt power plant as low as \$99.95!

Big, illustrated booklet tells all you want to know to select the right lighting plant for your purpose. Send for this free booklet today.

## 24 Pages of NEWS About WOODWORKING TOOLS

The smartest looking book you ever saw. Actual photos show the NEW refinements that give Wards Power-Kraft tools more capacity, more power, more precision. Everything for school, "hobby," or commercial shop. Designed to give you better work—priced to save you up to one-third. Before you buy ANY woodworking tools, send for this fascinating book.

MONTGOMERY WARD. Please send me the FREE catalogs checked.

☐ Wall Paper Book

☐ Woodworking Tools

☐ Electric Light and Power Book

Name .....

Street Address or Route and Box No. ....

Post Office .....

State .....

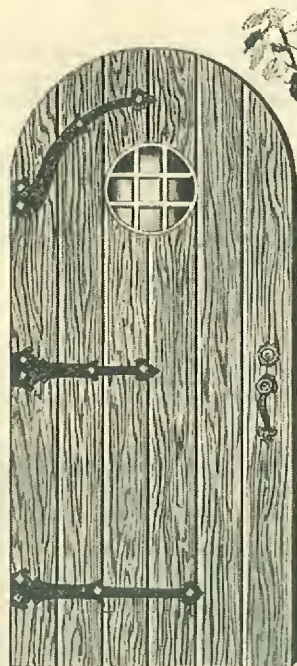
You May Paste This on a Penny Postcard and Mail It to Us.



# ... These MODERN ENTRANCE DOORS Will Give

## Your Home That Charming Old World Atmosphere ...

People who have travelled through the romantic countryside of France, Spain and England, tell us that these are practically perfect reproductions of antique doors. Rustic old-iron finish hinge plates and lock sets are copies of the ironwork found on the doors of century-old chateaux and manor houses. These Ward doors give the same ruggedly beautiful effect as the picturesque originals. If your home reflects any of the old-world styles, you'll want one of these artistic doors.



DORCHESTER

\$21<sup>75</sup>

Today, with beautiful homes planned in Old English, Colonial, Spanish and French Provincial styles, the front door has come to be of great importance. These distinctive V-joint Batten doors are correct in every detail. Heavy and massive in appearance, yet correctly proportioned. They're full 1 3/4 inches thick. Built upon a Pongosa Pine core to which the tongued and grooved V-Jointed Pongosa Pine veneer is glued. All doors are carefully wrapped in tough paper and securely crated. Hardware Not Included. See prices below.

### Old Iron Finish Hardware

**Rustic Front Door Lock Set.** Will not streak or mar doors. Large grip handle, length 10 1/2 inches, with thumbpiece on outside. Knob inside. Reversible cylinder lock, size 5 by 3 3/8 inches. All exposed parts made of solid cast brass.

84 HB 3076—Shipping weight 5 lbs. .... \$7.85

**Rustic Hinge Plates.** There is nothing that adds more to a front door than hinge plates of Rustic Old Iron Design. All exposed parts of cast brass, old iron finish.

84 HB 3813—Length 12 inches. Ship. weight 1 lb. 8 oz. .... \$1.50

84 HB 3812—Length 18 inches. Ship. weight 2 lbs. 8 oz. .... 1.79

84 HB 3814—Length 24 inches. Ship. wt. 2 lbs. 12 oz. .... 2.25

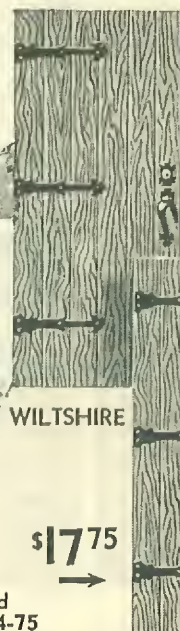
84 HB 3815—Curved Hinge. For right or left hand side of door. State side wanted. Ship. wt. 3 lbs. .... \$3.25



CHATHAM

\$17<sup>25</sup>

For Frames and Trim See Pages 74-75



WILTSHIRE

\$13<sup>45</sup>



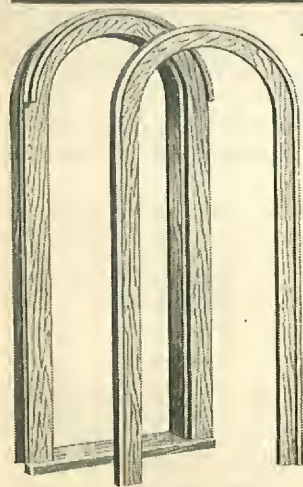
OXFORD

Hardware not included. See prices at left.

Size	274 HB 1086 Dorchester Door	274 HB 1084 Chatham Door	274 HB 1080 Wiltshire Door	274 HB 1092 Oxford Door	Shipping Weight
Width Ft. In.					
Height Ft. In.					
3-0 by 6-8	\$21.75	\$17.25	\$13.45	\$17.75	110 lbs.
3-0 by 7-0	22.25	17.75	13.95	18.25	120 lbs.

Doors Shipped from Philadelphia.

### Frames and Trim for Round Top Doors



Neat, distinctive Frame for standard 2 by 4 wall construction and Trim for Round Top Doors. Strongly constructed of clear Pongosa Pine. Jambes are 1 3/4 by 5 1/4 in.; rabbetted 1/2 by 1 3/4 in.; sill is 1 1/4 by 7 1/4 in.; outside casings are 1 1/4 by 4 1/2 in. and made to receive 1 1/4 in. storm or screen doors. Trim consists of 2 side casings 5/8 by 3 1/2 in.; head casing 5/8 by 3 1/2 in.; and back band 3/4 by 1 1/2 in.

Width Ft. In.	Height Ft. In.	Frame 274 HB 604	Average Ship. Wt.	Trim 274 HB 677	Average Ship. Wt.
3-0 by 6-8		\$7.85	55 lbs.	\$2.95	20 lbs.
3-0 by 7-0		8.05	65 lbs.	3.15	20 lbs.

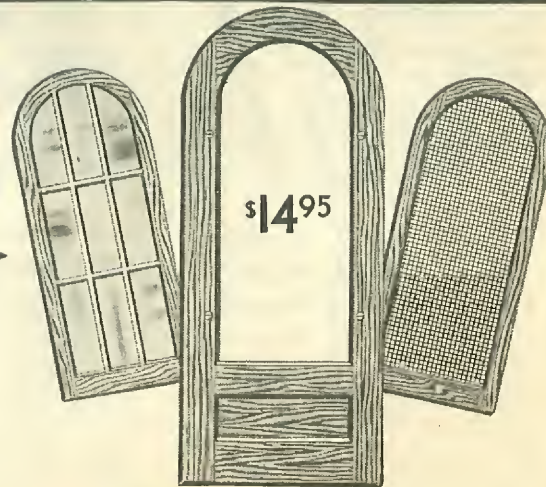
In winter a dependable storm door glazed with clear glass which helps keep heat in and cold out. In summer a sturdy screen door with 16-mesh Bronze wire. It's easy to change, too—a screwdriver and two minutes of your time is all you need to substitute panels.

The frame itself is carefully and expertly constructed of selected kiln-dried clear Pongosa Pine, full 1 1/4 inches thick. Stiles are 4 3/4 inches wide. Firmly mortised and tenoned.

Size	Average Shipping Weights	Round Top 274 HB 1078
Width Feet Inches		
Height Feet Inches		
3-0 by 6-8	85 pounds	\$14.95
3-0 by 7-0	95 pounds	15.25

Frames, Trim and Combination Doors shipped from Philadelphia, Pa.

### Combination Storm and Screen Doors



\$14<sup>95</sup>



# TRULY COLONIAL . . . through just such doors Washington welcomed guests to Mount Vernon



COLONIAL architecture expresses a simple and rustic beauty that has a charm all its own. This authentic colonial door is a reproduction inspired by the gracious door-ways that welcomed guests to spacious Southern homes in pre-revolutionary days. It radiates a warmth and hospitality that sets your home apart. And you need pay no more for this sturdy, massive door than for one less suited to Colonial design. Place your order now with the confidence you are securing lasting beauty and long service at savings typical of those you always make at Wards.

**\$6.50**

2-8x6-8

## Colonial Sidelights

These sidelights give the final touch to the Colonial atmosphere you desire to create. A pleasing flood of light gleaming through the glass at night . . . offers a truly cheerful welcome to your guests.

Sidelights are carefully made of clear Pondosa Pine, 1 3/4 in. thick, same as door, sanded, and ready for painting. Glazed with 5 lights of double strength glass. They match our Colonial door perfectly in design. For Sidelight Frames see Page 64.

Opening Size Width   Height Ft.   In.	274 HB 1065 White Pine	Shipping Weight Each Sidelight
1-2 x 6-8	Each \$4.75	50 lbs.
1-2 x 7-0	Each 5.15	55 lbs.

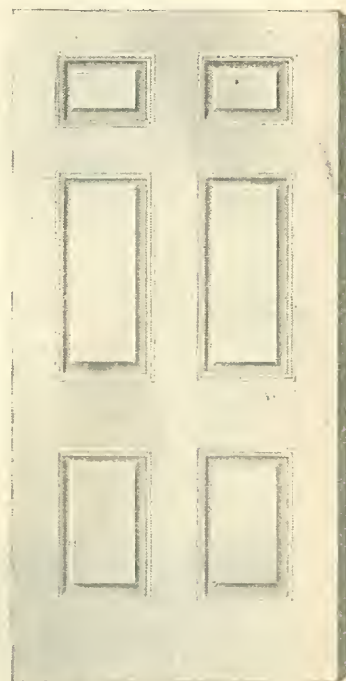
## Pondosa Pine Colonial Doors

This handsome Colonial door is as fine as expert workmen, proud of their craft, and using the best of materials, can possibly make it. Clear Pondosa Pine 1 3/4 inches thick, thoroughly seasoned and kiln-dried. All joints securely doweled with 5-inch hardwood dowels and glued.

Every detail is carefully designed to match authentic Colonial models. Furnished in natural wood, smoothly sanded and ready to paint.

Opening Size Width   Height Ft.   In.	274 HB 1050 White Pine	Average Shipping Weights
2-8 x 6-8	\$6.50	85 pounds
3-0 x 6-8	6.80	90 pounds
3-0 x 7-0	7.10	95 pounds

Shipped from Philadelphia, Pa.



These **CRAFTSMAN ENTRANCE DOORS** are outstanding favorites  
They're appropriate for any home . . . they're **EXTRA** sturdy, **EXTRA** quality



**T**ODAY architects emphasize the importance of the front door, because it so often can set an atmosphere of hospitality for the entire home.

You couldn't find a sturdier or better looking door than the HOLMES. Because of its simplicity it will harmonize with any type of architecture. It's made of two woods—Pondosa Pine to withstand check and warp when exposed to severe weather—Oak Veneer to give your home extra beauty by its fine grain and rich, warm color.

Strongly made of the best materials, this Door is priced low because Wards ship direct to you from the mill.



**\$7.95**

2-8x6-8

Holmes

← Door

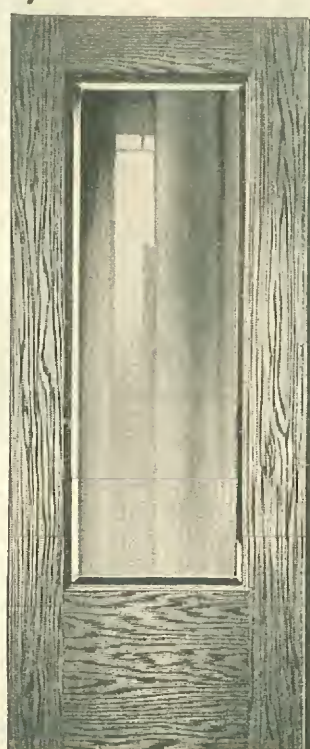
**\$6.50**

2-8x6-8

Whittier

Door →

Door  
Frames  
and Trim  
Pages  
74-75



**Y**OUR front door should be more than a protection against intruders and the weather—it should tell a flattering story of your own good taste.

The WHITTIER is a door to be proud of. Beautiful Oak Veneer with Wards thick, beveled plate glass, it adds beauty and dignity to any home. Driving rains, freezing cold or summer heat . . . the sturdy Pondosa Pine withstands them all hanging straight and true.

Both woods are especially chosen for their beauty and grain and the excellent way they take a finish. Like all our good doors, the Whittier will give long and faithful service.

Shipped from Mill in Philadelphia, Pa.

Size	274 HB 1187 Pondosa Pine 1 3/4 In. Thick Clear Glass	274 HB 1186 Pondosa Pine 1 3/4 In. Thick Bevel Plate Glass	274 HB 401 Veneered Oak 1 3/4 In. Thick Clear Glass	274 HB 402 Veneered Oak 1 3/4 In. Thick Bevel Plate Glass	Shipping Weight Pounds
2-8 x 6-8	\$7.95	\$14.25	\$13.95	\$20.75	110
3-0 x 6-8	8.40	15.75	14.25	22.75	120
3-0 x 7-0	8.75	16.75	14.95	23.75	130

Shipped from Mill in Philadelphia, Pa.

Size	274 HB 1189 Pondosa Pine 1 3/4 In. Thick Clear Glass	274 HB 1188 Pondosa Pine 1 3/4 In. Thick Bevel Plate Glass	274 HB 425 Veneered Oak 1 3/4 In. Thick Clear Glass	274 HB 406 Veneered Oak 1 3/4 In. Thick Bevel Plate Glass	Shipping Weight Pounds
2-8 x 6-8	\$6.50	\$13.75	\$11.60	\$18.50	105
3-0 x 6-8	6.95	15.50	12.25	19.75	115
3-0 x 7-0	7.20	16.25	12.50	20.50	120

If you wish White Pine Doors 1 3/4 inches thick, state so on order and add \$2.00 to above prices.

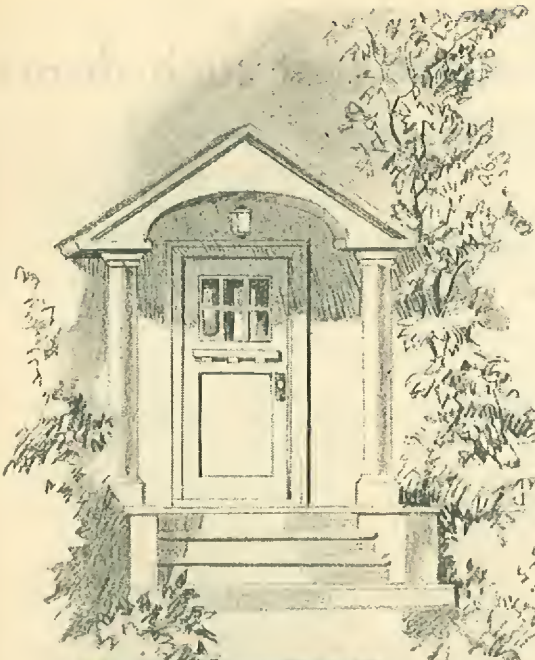


# Buy these MODERN ENTRANCE than ordinary doors . . . yet they're better

**I**N MAKING these fine doors we were more interested in their quality than we were in keeping their prices down, but with the lumber market low and our money-saving-method of shipping direct from mill to you we've been able to do both. In fact, it is amazing that such handsome doors as these, built as carefully of first grade materials, should be selling at such extremely low prices.

Every one of these doors is strong and sturdy, built to stand up staunchly in all kinds of weather. Pondosa Pine is used for stiles and rails because it withstands check or warp, and Fir for the panels because of its beautiful grain. That's why we especially recommend a Ward door built of solid Pondosa pine for entrance ways with no protecting porch.

For extra beauty and to give your home charm and distinction, we've also built these doors of beautiful Oak veneer. Like fine furniture, Wards doors are built up on a white pine core with the veneer glued on with waterproof glue



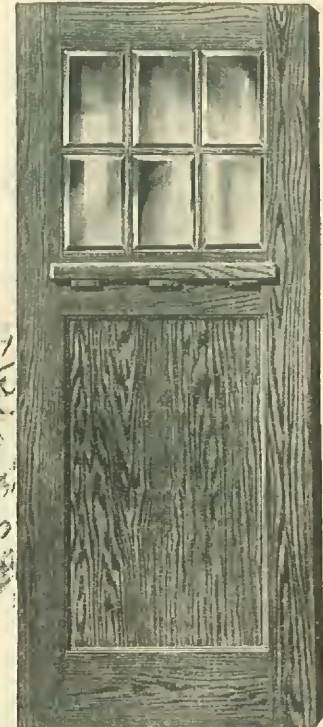
LONGFELLOW

**\$5<sup>95</sup>**



RILEY

**\$6<sup>50</sup>**



TACOMA

**\$7<sup>25</sup>**

See Wards  
General  
Catalog  
for  
Complete  
Line of  
Hardware

Low  
Freight  
Rates on  
Page 2

## Pondosa Pine Doors 1 3/4 inches thick

SIZE Width Height Ft. In. Ft. In.	274 HB 1192 Glazed with Clear Glass	274 HB 1181 Glazed with Bevel Plate Glass	Average Ship. Wts.
2-8 x 6-8	\$5.95	\$12.80	75 lbs.
3-0 x 6-8	6.35	13.25	80 lbs.
3-0 x 7-0	6.65	14.00	90 lbs.

If you wish Pondosa Pine Doors 1 3/4 inches thick state so on your order and add \$2.00 to above prices.

## Veneered Oak Doors 1 3/4 inches thick

SIZE Width Height Ft. In. Ft. In.	274 HB 405 Glazed with Clear Glass	274 HB 403 Glazed with Bevel Plate Glass	Average Ship. Wts.
2-8 x 6-8	\$12.75	\$19.50	98 lbs.
3-0 x 6-8	14.00	21.75	105 lbs.
3-0 x 7-0	14.85	22.50	112 lbs.

## Pondosa Pine Doors 1 3/4 inches thick

SIZE Width Height Ft. In. Ft. In.	274 HB 1184 Glazed with Clear Glass	274 HB 1185 Glazed with Bevel Plate Glass	Average Ship. Wts.
2-8 x 6-8	\$6.50	\$13.25	75 lbs.
3-0 x 6-8	6.75	13.60	80 lbs.
3-0 x 7-0	7.05	14.50	90 lbs.

If you wish Pondosa Pine Doors 1 3/4 inches thick state so on your order and add \$2.00 to above prices.

## Veneered Oak Doors 1 3/4 inches thick

SIZE Width Height Ft. In. Ft. In.	274 HB 409 Glazed with Clear Glass	274 HB 408 Glazed with Bevel Plate Glass	Average Ship. Wts.
2-8 x 6-8	\$13.50	\$20.25	98 lbs.
3-0 x 6-8	14.50	20.60	105 lbs.
3-0 x 7-0	15.25	21.50	112 lbs.

## Clear Pondosa Pine Doors 1 3/4 inches thick Average ship. wts. 75, 80 and 90 pounds.

SIZE Width Ht. Ft. In. Ft. In.	274 HB 437 With Fir Panels Clear Glass	274 HB 436 With Fir Panels Bevel Plate
2-8 x 6-8	\$7.25	\$10.50
3-0 x 6-8	7.60	11.75
3-0 x 7-0	8.05	12.10

If you wish Pondosa Pine Doors 1 3/4 inches thick with Fir panels state so on your order and add \$2.00 to above prices.

## Doors 1 3/4 inches thick Average ship. wts., 98, 105 and 112 pounds.

SIZE Width Ht. Ft. In. Ft. In.	274 HB 428 Oak Veneer Glazed with Clear Glass	274 HB 416 Oak Veneer Glazed with Bevel Plate
2-8 x 6-8	\$13.25	\$16.10
3-0 x 6-8	14.25	17.80
3-0 x 7-0	15.00	18.30

Shipped from mills in Philadelphia, Pa.

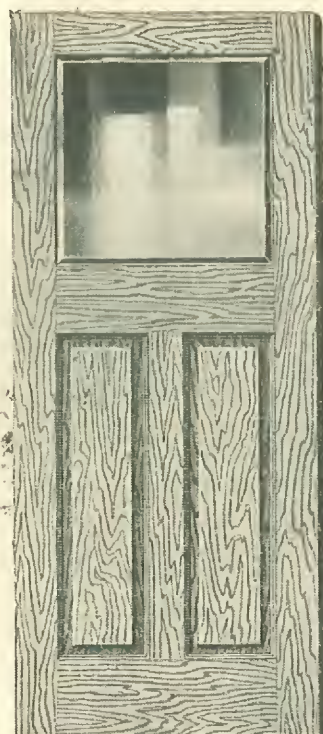


# DOORS . . . they cost so little more styled . . . and you'll be better satisfied

under great pressure. Doors made this way resist warping. Only the finest grade of rotary cut Oak veneer, especially chosen for beauty of grain is used—and it takes a beautiful varnish finish.

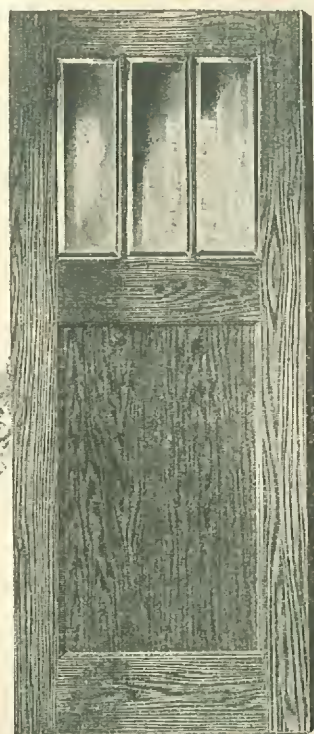
The plate glass in Ward doors is the same, thick lustrous quality used for show cases and other places where extra endurance and beauty is required.

So many people have difficulty finding just the right door to "go with" their houses. That's why we styled these doors to harmonize with all types of architecture. Each one is architecturally correct and perfectly proportioned for dignity and beauty. The Longfellow, Tacoma or Oakland for instance would be exactly right with any house that has picturesque divided light windows. Yet they'd add a touch of variety to the home with two-light windows. The graceful glass panels of the Riley or Sacramento suggest combination with long, horizontal bungalow lines, but put one of these doors in another type of home and it will look equally well.



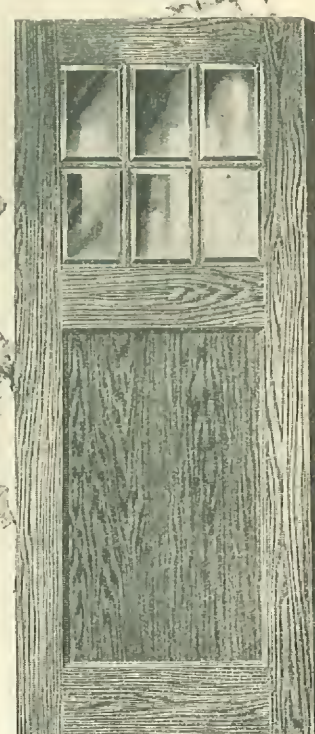
PORTLAND

**\$5<sup>95</sup>**



SACRAMENTO

**\$6<sup>25</sup>**



OAKLAND

**\$6<sup>95</sup>**

Wards  
BUDGET PLAN  
See  
Page 3

For  
Door Frames  
and Trim  
See Pages  
74 and 75

Clear Pondosa Pine Doors 1 3/8 inches thick				
SIZE	274 HB 430	274 HB 1240	Average	
Width Height	Fir Panels	Fir Panels	Ship.	Wts.
Ft. In. Ft. In.	Clear Glass	Bevel Plate		
2-8 x 6-8	\$5.95	\$8.75		75 lbs.
3-0 x 6-8	6.40	9.80		80 lbs.
3-0 x 7-0	6.85	10.20		90 lbs.

If you wish Pondosa Pine Doors 1 3/4 inches thick so state on your order and add \$2.00 to above prices.

Doors 1 3/4 inches thick		
Average ship. wts. 105, 110 and 115 pounds.		
SIZE	274 HB 1242	274 HB 1243
Width Height	Oak Veneer	Oak Veneer
Ft. In. Ft. In.	Glazed with	Glazed with
	Clear Glass	Bevel Plate
2-8 x 6-8	\$12.45	\$14.75
3-0 x 6-8	13.10	16.25
3-0 x 7-0	13.95	16.95

Clear Pondosa Pine Doors 1 3/8 inches thick				
SIZE	274 HB 441	274 HB 440	Average	
Width Height	Fir Panel	Fir Panel	Ship.	Wts.
Ft. In. Ft. In.	Clear Glass	Bevel Plate		
2-8 x 6-8	\$6.25	\$ 8.95		75 lbs.
3-0 x 6-8	6.65	10.15		80 lbs.
3-0 x 7-0	7.10	10.50		90 lbs.

If you wish Pondosa Pine Doors 1 3/4 inches thick so state on your order and add \$2.00 to above prices.

Veneered Oak Doors 1 3/4 inches thick			
SIZE	274 HB 413	274 HB 412	Average
Width Height	Glazed with	Glazed with	
Ft. In. Ft. In.	Clear Glass	Bevel Plate	Ship.
		Glass	Wts.
2-8 x 6-8	\$12.95	\$15.45	98 lbs.
3-0 x 6-8	13.65	17.25	105 lbs.
3-0 x 7-0	14.45	17.75	112 lbs.

Clear Pondosa Pine Doors 1 3/8 inches thick				
SIZE	274 HB 443	274 HB 442	Average	
Width Height	Fir Panels	Fir Panels	Ship.	Wts.
Ft. In. Ft. In.	Clear Glass	Bevel Plate		
2-8 x 6-8	\$6.95	\$10.25		75 lbs.
3-0 x 6-8	7.25	11.35		80 lbs.
3-0 x 7-0	7.75	11.75		90 lbs.

If you wish Pondosa Pine Doors 1 3/4 inches thick so state on your order and add \$2.00 to above prices.

Doors 1 3/4 inches thick		
Average ship. wts. 105, 110 and 115 pounds.		
SIZE	274 HB 411	274 HB 429
Width Height	Oak Veneer	Oak Veneer
Ft. In. Ft. In.	Glazed with	Glazed with
	Clear Glass	Bevel Plate
2-8 x 6-8	\$12.95	\$15.75
3-0 x 6-8	13.95	17.45
3-0 x 7-0	14.75	17.95

Shipped from mills in Philadelphia, Pa.



65 out of every 100 homes find these doors **MOST**



**W**ARDS recommend these doors for those who are looking for quality, appearance and good workmanship in doors, and yet want to keep the cost down. Order any door separately, if you wish, but you can save time and money by ordering a complete door set. (See bottom of this page.)

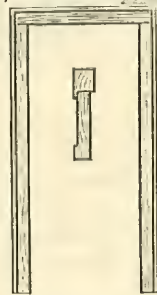
Our designs are those approved by leading architects as correct. They will harmonize with almost any style of home. Notice their good proportions—the wide stiles and heavy bottom rails that give them strength and dignity.

All doors are carefully constructed by expert workmen to insure long service. Full 5-inch hardwood dowel pins with high grade waterproof glue, hold stiles and rails securely together. Carefully sanded—ready to finish.



YORK

**\$335** Door Only **\$935** Complete



Detail of inside door trim and buckband molding.



DOVER

**\$350** Door Only **\$950** Complete



Lock Set and Hinges furnished with complete sets.



BYRON

**\$365** Door Only **\$965** Complete

**These Doors Complete With Frame—Sill—Threshold—Trim—Lock Set and Hinges—ALL at One LOW, Money Saving Price**

To save you time in ordering and to eliminate unnecessary waste of materials in fitting, Wards have arranged these attractive doors in complete sets. Everything you need to install a new door is included. These attractive doors are recommended where low cost is essential.

Constructed of well seasoned and kiln-dried materials—the same as our other doors.

The clear Pondosa Pine frame is for standard 2 by 4 studding construction where sheathing and plaster are used. Inside trim is clear Yellow Pine with head and side casings

3 1/2 inches wide. Good quality, dull brass Lock Set and Hinges included. For a complete description of frame and trim see 274 HB 609 on Page 74 and 274 HB 646 on Page 75.

Doors and trim all furnished smoothly sanded and ready to stain or paint to match your wood work.

SIZE		SHIP. WEIGHTS		274 HB 445	274 HB1210
Width	Height	Doors	Complete	York Door	York Door
Ft. In.	Ft. In.	Only	Sets	1 3/4 In. thick	1 3/4 In. thick
				Door only	Complete Set
2-6 by 6-6		65 lbs.	141 lbs.	\$3.35	\$9.35
2-8 by 6-8		70 lbs.	146 lbs.	3.65	9.65
3-0 by 6-8		72 lbs.	148 lbs.	3.90	9.90

SIZE		SHIP. WEIGHTS		274 HB1066	274 HB1223
Width	Height	Doors	Complete	Dover Door	Dover Door
Ft. In.	Ft. In.	Only	Sets	1 3/4 In. Thick	1 3/4 In. Thick
				Door only	Complete Set
2-6 by 6-6		65 lbs.	141 lbs.	\$3.50	\$9.50
2-8 by 6-8		70 lbs.	146 lbs.	3.80	9.80
3-0 by 6-8		72 lbs.	148 lbs.	4.10	10.10

OPENING SIZE		SHIP. WEIGHTS		274 HB1070	274 HB1224
Width	Height	Doors	Complete	Byron Door	Byron Door
Ft. In.	Ft. In.	Only	Sets	1 3/4 In. Thick	1 3/4 In. Thick
				Door Only	Complete Set
2-6 by 6-6		85 lbs.	161 lbs.	\$3.65	\$9.65
2-8 by 6-8		86 lbs.	162 lbs.	3.95	9.95
3-0 by 6-8		89 lbs.	165 lbs.	4.25	10.25

Shipped promptly from mills in Philadelphia, Pa. For Freight Rates see Page 2.



# ECONOMICAL for front, rear or side entrances

ALL but three of our doors (York, Dover and Byron) are made of clear Pondosa Pine—the outstanding wood for serviceable yet economical doors.

The York, Dover and Byron doors are “B” Quality Fir. They are just as strong, just as well made, but are graded “B” because of small imperfections in the wood—which paint or stain will cover.

Freezing winter cold or blazing summer heat—dampness or dryness—Pondosa Pine and Fir both will withstand exposure to all kinds of weather. We have many letters from enthusiastic customers telling us that Wards doors hang straight and true for years.

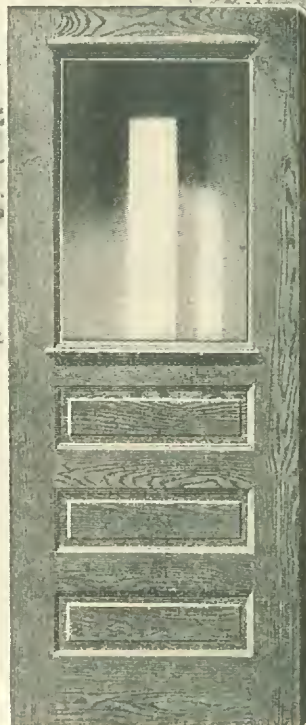
Glazed with good quality clear glass firmly held in place by wood stops. All doors carefully wrapped and crated for safe delivery.



HAWTHORNE

**\$6<sup>50</sup>**

Low  
Freight  
Rates  
on  
Page 2



VAN DYKE

**\$5<sup>25</sup>**

Trim  
and  
Jambs  
on Pages  
74 and 75



LOWELL

**\$5<sup>95</sup>**

These Doors are ALL Made of First Quality Clear Pondosa Pine

Wards Hawthorne door has long been an outstanding favorite with thrifty people. It is especially recommended for use in places where the glass might accidentally get broken. Because the glass is divided into six small lights instead of a single large one, the cost of replacement is extremely small.

Opening Size		Approximate Glass Size Inches	Ship. Wt. Lbs.	274 HB 1072 Hawthorne Clear Glass	
Width Ft. In.	Height Ft. In.			1 3/4 In. Thick	1 3/4 In. Thick
2-8	by 6-8	10 3/4 by 13	85	\$6.50	\$7.00
3-0	by 7-0	12 3/4 by 14 1/4	90	7.25	8.75

Take special notice of the water table or drip cap at the top and bottom of the glass on our Van Dyke Door. This attractive feature adds much to the massive appearance of the door. The three raised panels give it an atmosphere of strength and dignity.

SIZE		Approximate Glass Size Inches	Ship. Wt. Lbs.	274 HB 433 Van Dyke Door Clear Glass	
Width Ft. In.	Height Ft. In.			1 3/4 In. Thick	1 3/4 In. Thick
2-6	by 6-6	20 by 30	85	\$5.25	
2-8	by 6-8	22 by 32	86	5.45	\$6.95
2-8	by 7-0	22 by 36	89	5.85	7.35
3-0	by 7-0	26 by 36	97	6.15	7.65

At Wards low price you will find our Lowell door a real bargain. Note the large light of glass with which it is glazed, the attractive raised panel at the bottom. The water table at the top and bottom of the glass is cemented into place with water-proof glue.

SIZE		Approximate Glass Size Inches	Ship. Wt. Lbs.	274 HB 435 Lowell Door Clear Glass	
Width Ft. In.	Height Ft. In.			1 3/4 In. Thick	1 3/4 In. Thick
2-8	by 6-8	22 by 38	83	\$5.95	\$7.45
3-0	by 7-0	26 by 42	89	6.75	8.25

See your copy of Wards General Catalog for a complete line of paint and varnish.

Shipped promptly from Philadelphia, Pa. Low Freight Rates on Page 2

A Complete Line of Quality Paints . . . See Wards General Catalog

BA MONTGOMERY WARD 61





# You need at least one **MIRROR DOOR!** You should have one in Every Bedroom . . . in the Bathroom . . . in your Guest Closet



**YOU MUST** have doors, and if you're particular about your appearance, you're going to want full-length mirrors. Why not settle two problems in one by installing mirror doors. Modern home-owners install them in every bedroom, in the bathroom and in coat closets downstairs.

Every woman, and man, too, looks and feels better groomed after a head-to-toe picture so easily obtained in a full length mirror door. That's why a mirror is one of the first things a guest searches for upon entering the house. And a mirror door is just as important as it is convenient.

Authorities agree that a mirror is one of the most useful articles for decorating the home. Its reflection of colors and objects gives the room life and warmth. Why not install a mirror door now, while prices are low? At Wards they cost much less than you'd ordinarily pay for glass and door if you bought them separately.

## MIRROR DOOR

**\$15.75**

2-0x6-0

Furnished in plain Red Oak, All Gum Veneer or Pongosa Pine stiles and rails with Fir panel. The Mirror, with its lustrous reflecting surface, is made of best quality polished plate glass. The opposite side of this door is the same as our Insert-Panel door shown below at right. Doors are 1 3/8 inches thick with 5-inch hardwood dowel pin construction. Carefully and smoothly sanded so that you can easily stain or enamel them to match your woodwork.

Average ship. wt. 95 lbs. Shipped from Philadelphia, Pa. For Door Jambs see Page 74.

Size		Glass Size	274 HB 468 Pongosa Pine Fir Panel	274 HB 1112 All Gum Veneer	274 HB 469 All Oak Veneer
Width Ft. In.	Hgt. Ft. In.				
2-0 x 6-0	15 3/8 x 60 1/4		\$15.75	\$18.35	\$19.20
2-6 x 6-8	21 3/8 x 66 1/4		22.85	26.15	27.30
2-8 x 6-8	23 3/8 x 66 1/4		24.75	27.90	28.95

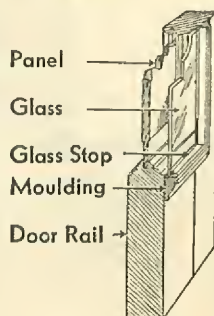
## MAKE YOUR OWN MIRROR DOORS

It's Easy . . . Takes Only a Few Minutes  
. . . And Is Very Economical

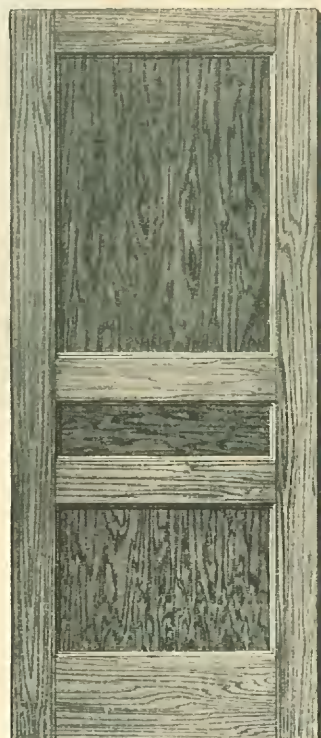
With this complete outfit you can make a beautiful Mirror Door out of any door in your home. We furnish either plain or bevel plate mirror, door moulding, glass stop and brass screws for applying. The glass stop and mouldings frame the mirror and hold it firmly in place. Can be put on in a few minutes without even removing door.

Below you will find sizes of mirrors to order for doors of various sizes. The moulding can be furnished in Yellow Pine, Pongosa Pine, Birch or Oak.

State wood wanted. Shipped from Mill in Philadelphia, Pa.



Size of Door Width   Hgt. Ft. In.   Ft. In.	Size of Mirror	274 HB 446 1 1/2-Inch Bevel Plate Mirror	274 HB 447 Plain Plate Mirror	Ship. Wt. Lbs.
2-0 x 6-0	16x60	\$17.25	\$12.35	58
2-6 x 6-8	22x68	27.60	19.65	70
2-8 x 6-8	24x68	28.85	21.00	72



## THREE-PANEL DOOR

Very popular with Wards customers because of its splendid construction and low price. Slight imperfections in the wood cause these doors to be graded "B" quality but they are just as strong and well made as other doors which sell for considerably higher prices.

Strongly made with dowel pin construction like all Ward doors. The hardly noticeable imperfections won't show at all when the door is painted or stained.

Size of Doors Width   Hgt. Ft. In.   Ft. In.		THREE PANEL DOOR	
		274 HB 1062 "B" Quality Fir	Ship. Wt. Lbs.
2-0 x 6-0		\$2.15	33
2-0 x 6-6		.....	..
2-0 x 6-8		.....	..
2-4 x 6-6		.....	..
2-4 x 6-8		.....	..
2-6 x 6-6		2.70	38
2-6 x 6-8		2.78	39
2-8 x 6-8		2.85	41
2-6 x 7-0		.....	..
2-8 x 7-0		.....	..
3-0 x 7-0		.....	..

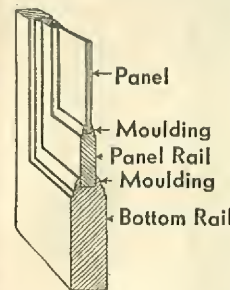
← **\$215**

2-0x6-0

**\$430** →

2-0x6-0

Detail of Wards  
Insert Panel Door



## INSERT-PANEL DOOR

Our newest and most beautiful interior door. One that we know you'd pay much more for than Wards low price if you bought elsewhere.

The center panel is of 3-ply birch, gum, oak or fir veneer. All woods carefully selected. The Mouldings have the grace and dignity of classic architecture.

If you're striving for perfection in every detail of your home, we recommend that you choose this door.

FOR DOOR JAMBS SEE PAGE 74

Size of Doors Width   Hgt. Ft. In.   Ft. In.		THREE PANEL DOOR		INSERT PANEL DOOR				
		274 HB 1062 "B" Quality Fir	Ship. Wt. Lbs.	274 HB 490 Pondosa Pine with Birch Panels	274 HB 1064 All Gum Veneer	274 HB 485 Pondosa Pine with Fir Panels	274 HB 450 Veneered Oak Stiles Rails and Panels	Ship. Wt. Lbs.
2-0 x 6-0		\$2.15	33	\$4.50	\$6.90	\$4.30	\$8.60	28
2-0 x 6-6		.....	..	4.70	7.10	4.45	8.85	30
2-0 x 6-8		.....	..	4.75	7.15	4.50	8.90	30
2-4 x 6-6		.....	..	5.10	7.45	4.80	9.30	34
2-4 x 6-8		.....	..	5.15	7.55	4.90	9.35	34
2-6 x 6-6		2.70	38	5.30	7.75	5.00	9.60	35
2-6 x 6-8		2.78	39	5.35	7.80	5.10	9.70	35
2-8 x 6-8		2.85	41	5.55	8.10	5.25	10.05	35
2-6 x 7-0		.....	..	5.70	8.45	5.40	10.10	37
2-8 x 7-0		.....	..	5.90	8.75	5.60	10.90	40
3-0 x 7-0		.....	..	6.35	9.60	6.00	11.90	42

Shipped Promptly from Mill in Philadelphia, Pa.



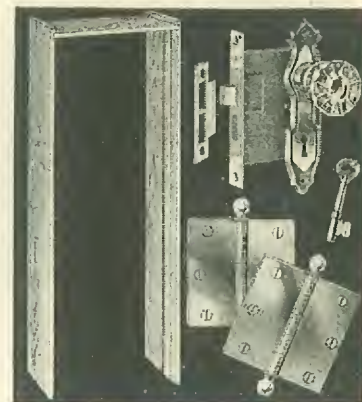
# Buy **INTERIOR DOORS** complete with Jamb, Trim, and Hardware ... all at one low price

**EVERYTHING** you need to install a new door and all at one low, money saving price. When you buy Complete Door Sets—you save a lot of time in ordering—you get all the pieces you need—there's no waste of time or material in fitting—everything comes to you from one place and at one time.

Below we show three of our most popular interior doors, complete with hardware and finished with our Craftsman trim. (Two sides of trim are included in a set.) At the right the door jamb, lock set and butts are pictured. Of course, you may order any door separately. You'll find it priced that way in the first table of prices below.

All doors are made of woods carefully selected for grain and color. Five-inch hardwood dowels are used in all joints. This accounts for the great strength and rigidity of our doors. All panels are of three-ply. The trim is made of clear Yellow Pine (oak furnished for oak doors) with head and side casings  $3\frac{1}{2}$  inches wide and backband  $\frac{3}{4}$  by  $\frac{1}{8}$  inch. Jambs are also of clear Yellow Pine (oak furnished for oak doors) with side jambs dadoed for head jamb. Lock set is of best quality, dull brass finish. Fluted glass knobs.

Doors, trim and jamb furnished smoothly sanded, ready to stain or paint to match your woodwork. For Paints and Varnish see Wards General Catalog.



Door Only  
274 HB 491  
274 HB 492  
274 HB 464

Complete Set  
274 HB 1201  
274 HB 1202  
274 HB 1203

For Monthly Payments  
See Our  
Budget Plan  
on Page 3

**\$2<sup>20</sup>**

2-0x6-0  
Door Only

**\$6<sup>40</sup>**

2-0x6-0  
Complete Set



Door Only  
274 HB 466

Complete Set  
274 HB 1204

**\$2<sup>29</sup>**

2-0x6-0  
Door Only

**\$6<sup>50</sup>**

2-0x6-0  
Complete Set

**\$2<sup>32</sup>**

2-0x6-0  
Door Only

**\$6<sup>55</sup>**

2-0x6-0  
Complete Set



Door Only  
274 HB 493  
274 HB 465  
274 HB 489  
274 HB 497

Complete Set  
274 HB 1205  
274 HB 1206  
274 HB 1207  
274 HB 1208

All doors are  $1\frac{3}{8}$  inches thick.

## Price of Doors Only

Size Width Ft. In. Height Ft. In.	274 HB 491 Fir "A" Quality	274 HB 492 Fir "B" Quality	274 HB 464 Pondosa Pine with Fir Panels	274 HB 466 Fir "A" Quality	274 HB 493 Fir "A" Quality	274 HB 465 Pondosa Pine with Fir Panels	274 HB 489 Pondosa Pine with Birch Panels	274 HB 497 Veneered Plain Red Oak	Average Ship. Wt. Lbs.
2-0 by 6-0	\$2.29	\$2.20	\$3.22	\$2.29	\$2.32	\$3.25	\$3.45	\$7.65	33
2-0 by 6-6	2.44	2.35	3.38	2.44	2.47	3.41	3.60	7.82	36
2-0 by 6-8	2.48	2.40	3.45	2.48	2.51	3.48	3.67	7.90	38
2-4 by 6-6	2.69	2.61	3.73	2.69	2.72	3.76	3.98	8.25	40
2-4 by 6-8	2.75	2.66	3.82	2.75	2.78	3.85	4.05	8.32	42
2-6 by 6-6	2.82	2.74	3.92	2.82	2.85	3.95	4.15	8.55	42
2-6 by 6-8	2.86	2.77	3.98	2.86	2.89	4.00	4.23	8.60	43
2-8 by 6-8	3.00	2.90	4.15	3.00	3.03	4.18	4.43	8.98	44
2-8 by 7-0	3.10	3.00	4.30	3.10	3.13	4.33	4.57	9.30	45
2-8 by 7-0	3.23	3.12	4.48	3.23	3.26	4.51	4.78	9.70	48
3-0 by 7-0	3.40	3.28	4.87	3.40	3.43	4.90	5.20	9.98	49

## Price of Complete Set Including Door, (Mortised for Lock) Jamb Stops, 2 Sides, Backband Trim, Lock Set and Butts

Size Width Ft. In. Height Ft. In.	274 HB 1201 Fir "A" Quality	274 HB 1202 Fir "B" Quality	274 HB 1203 Pondosa Pine with Fir Panels	274 HB 1204 Fir "A" Quality	274 HB 1205 Fir "A" Quality	274 HB 1206 Pondosa Pine with Fir Panels	274 HB 1207 Pondosa Pine with Birch Panels	274 HB 1208 Veneered Plain Red Oak	Ship. Wt. Lbs.
2-0 by 6-0	\$6.50	\$6.40	\$7.50	\$6.50	\$6.55	\$7.45	\$7.65	\$11.85	78
2-0 by 6-6	6.64	6.55	7.58	6.64	6.67	7.61	7.80	12.02	81
2-0 by 6-8	6.68	6.60	7.65	6.68	6.71	7.68	7.87	12.10	83
2-4 by 6-6	6.89	6.81	7.93	6.89	6.92	7.96	8.18	12.45	85
2-4 by 6-8	6.95	6.86	8.02	6.95	6.98	8.05	8.25	12.52	87
2-6 by 6-6	7.02	6.94	8.12	7.02	7.05	8.15	8.35	12.75	87
2-6 by 6-8	7.06	6.97	8.18	7.06	7.09	8.20	8.43	12.80	88
2-8 by 6-8	7.20	7.10	8.35	7.20	7.23	8.38	8.63	13.18	90
2-8 by 7-0	7.30	7.20	8.50	7.30	7.33	8.53	8.77	13.50	89
2-8 by 7-0	7.53	7.32	8.68	7.53	7.46	8.71	8.98	13.70	93
3-0 by 7-0	7.60	7.48	9.07	7.60	7.63	9.10	9.40	13.98	94

Shipped from Mill in Philadelphia, Pa.



# FRENCH DOORS Have That Extra Charm No Other Door Can Give Your Home



OFTEN the only difference between a beautiful home and a less attractive one is in the details of the finish. Many ordinary looking houses could be transformed into smart, attractive ones by just a few distinctive finishing features—such as French Doors. They are especially decorative and give the home new character and beauty.

If you are remodeling your home put a pair of French Doors between the hall and living room—leading to your sun porch or terrace—between the living and dining room. Leave them undraped—or hang curtains or net to match the color scheme of your room. A single French Door or Terrace Door is especially attractive when used for the opening onto a screened or sleeping porch. And here's something else—French Doors at the top of your stairs will prevent those chilly drafts that often come down open stairways into the living room.

French Doors are made of clear Pondosa Pine, Gum or veneered Red Oak  $1\frac{3}{8}$  or  $1\frac{1}{4}$  inches thick. Side and top rails are  $3\frac{3}{4}$  inches wide; bottom rail  $8\frac{3}{4}$  inches. Glazed with double strength glass. T shape Astragal is furnished for center. Shipped from Philadelphia, Pa. See Page 2 for Low Freight Rates.

Size of Opening Per Pair Width / Height Ft. In. / Ft. In.	Pondosa Pine		Red Oak Veneer		All Gum		Ship. Wts. Doors
	274 HB 1152 $1\frac{3}{8}$ In. Thick	274 HB 470 $1\frac{1}{4}$ In. Thick	274 HB 1154 $1\frac{3}{8}$ In. Thick	274 HB 473 $1\frac{1}{4}$ In. Thick	274 HB 1156 $1\frac{3}{8}$ In. Thick	274 HB 1150 $1\frac{1}{4}$ In. Thick	
4-0 x 6-8	\$7.55	\$ 9.55	\$17.50	\$19.50	\$15.50	\$17.50	140 lbs.
4-0 x 7-0	8.05	10.05	18.75	20.75	16.75	18.75	165 lbs.
5-0 x 6-8	8.85	10.85	20.50	22.50	18.50	20.50	195 lbs.
5-0 x 7-0	9.35	11.35	21.25	23.25	19.25	21.25	210 lbs.

## SIDE LIGHTS and FRAME



274 HB 452 Side Light Frame 274 HB 1068  
274 HB 451 274 HB 615 274 HB 1069

### Sidelights Beautify Your Home

They give a cheery, hospitable look to the front door. Furnished in designs and woods to match our doors. Made of clear Pondosa Pine  $1\frac{3}{8}$  in. thick. Glazed with Plain Plate Glass. Average shipping weight 50 pounds.

Article Number	Kind of Wood	Number of Lights	Size 1-2x6-8 Each	Size 1-2x7-0 Each
274 HB 452	Pondosa Pine	Ten Lights	\$5.40	\$5.70
274 HB 451	Oak	Ten Lights	9.70	10.05
274 HB 1068	Pondosa Pine	One Light	7.30	7.50
274 HB 1069	Oak	One Light	10.40	11.50

### Special Frames for Sidelights

We supply special Frames to fit Doors and Sidelights—made of Pondosa Pine—cut to size ready, to set up. Outside casing is  $1\frac{1}{8}$  inches thick with moulded cap. Jambs are  $1\frac{3}{8}$  by  $5\frac{1}{4}$  inches, rabbeted for  $1\frac{3}{8}$  or  $1\frac{1}{4}$ -inch doors and for  $1\frac{3}{8}$ -inch sidelights. Be sure to specify thickness of your door. Average shipping weight 90 pounds.

274 HB 615—State Size. Price Frame only.	
For door 2 ft. 8 in. by 6 ft. 8 in. Sidelights 1 ft. 2 in. by 6 ft. 8 in. Each.....	\$8.95
For door 3 ft. by 6 ft. 8 in. Sidelights 1 ft. 2 in. by 6 ft. 8 in. Each.....	9.40
For door 3 ft. by 7 ft. Sidelights 1 ft. 2 in. by 7 ft. Each.....	10.30

For Frames with Oak sill add \$1.00 extra.

Frames and Sidelights Shipped from Philadelphia, Pa. Freight Rates on Page 2.

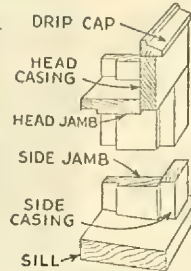
## FRENCH DOOR FRAMES

Frames are for 2 by 4 stud wall outside openings (use jambs, page 74 for interior openings.)

Pondosa Pine. Outside casings  $1\frac{1}{8}$  by  $4\frac{1}{2}$  in. Jambs  $1\frac{3}{8}$  by  $5\frac{1}{4}$  in. Rabbeted for doors  $1\frac{3}{8}$  or  $1\frac{1}{4}$  in. thick. Specify thickness of your door. Sill  $1\frac{1}{8}$  by  $7\frac{1}{4}$  in. Drip cap  $1\frac{1}{8}$  by  $1\frac{1}{2}$  in.

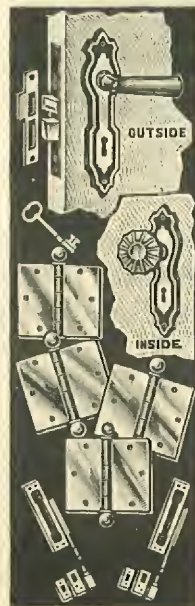
If moulded cap rather than plain drip cap is wanted, order under 274 HB 614 and add 35c. If Oak Sill is wanted add 75c to prices listed.

Shipped from Philadelphia, Pa.



Size of Opening Ft. In. / Ft. In.	274 HB 613 Pondosa Pine	Shipping Weights
4-0 x 6-8	\$4.75	71 pounds
4-0 x 7-0	4.95	73 pounds
5-0 x 6-8	5.20	75 pounds
5-0 x 7-0	5.45	77 pounds

## MODERN HARDWARE for FRENCH DOORS



### Lock Sets

French door hardware should always create a good impression. Here is a very conservative, yet very attractive set—a design of unusual pattern with its narrow and gracefully curved escutcheons—one that is admirably suited for all fine homes.

The complete set consists of two escutcheons  $6\frac{1}{2}$  by  $1\frac{1}{2}$  inches. The outside trim has a well-shaped lever type handle; the inside trim has a glass knob. A strong reversible lock  $3\frac{3}{4}$  x  $3\frac{1}{4}$ . All the necessary screws, and one key. Dull brass, relieved finish. Shipping weight 2 pounds 8 ounces. 84 HB 3085..... \$1.75

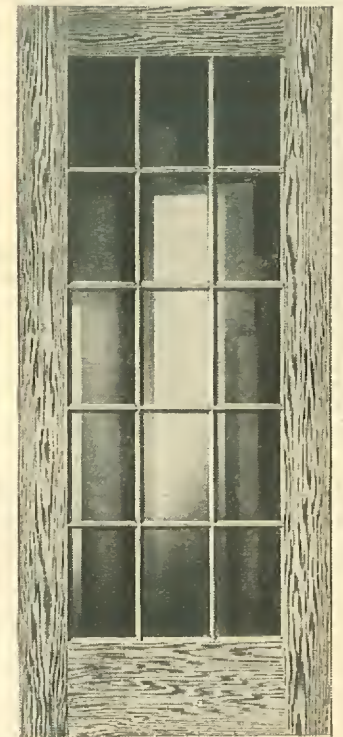
### Door Butts

Loose pin has non-rising feature. Screws to match. Size  $3\frac{1}{2}$  by  $3\frac{1}{2}$  inches. Dull brass finish. Ship. wt. 1 lb. 8 oz. 84 HB 3602—Per pair.... 19c

### Flush Bolts

Wrought steel. Plate  $6\frac{1}{4}$  by  $1\frac{1}{4}$  inches; 9-inch rod. Screws included. Dull brass finish. Shipping weight each 5 ounces. 84 HB 3376—Each..... \$1.25

## TERRACE DOOR



Our Terrace Doors are carried in stock in the sizes listed below. They can be used singly for entrances opening onto porches, sun parlors, etc. Where extra heavy French Doors are wanted these doors can be hung in pairs. We recommend the use of an Astragal when used in pairs. (See page 79 for prices.)

Doors are strongly built for long service. Genuine dowel pin construction using 5-inch hardwood dowels. Furnished unfinished so that you can enamel or stain and varnish to match your woodwork. Glazed with best quality clear glass.

Average shipping weight 120 pounds.

Size of Opening Width / Hgt. Ft. In. / Ft. In.	274 HB 1175 Pondosa Pine $1\frac{3}{8}$ -inch thick	274 HB 479 Veneered Red Oak $1\frac{3}{8}$ -in. thick	274 HB 1160 Gum $1\frac{3}{4}$ -inch thick
2-8x6-8	\$5.95	\$11.75	\$10.50
3-0x6-8	6.25	14.25	12.95
3-0x7-0	6.50	14.60	13.25

Shipped from Philadelphia, Pa.



# It takes only a few **FRENCH WINDOWS** to completely transform a room

**WARDS** French Windows are made of clear Pondosa Pine, 1 3/8 inches thick, thoroughly seasoned and kiln dried. All joints are mortised and tenoned. They are glazed with best quality clear glass firmly held in place by zinc points and Primeless oil putty. Rabbed at center stiles to insure a water tight fit. We make them in six popular sizes listed below, each to either swing-in or swing-out as desired. (See illustration at bottom of page for difference of construction.) Shipped in natural wood, smoothly sanded to take any finish.

Shipped promptly from Philadelphia, Pa. State size when ordering, giving width first.

Size of Opening Width Height Ft. In. Ft. In.	Glazing		Price per Pair		Average Ship. Wt. Lbs.
	Total No. of Lights	No. of Lights High	274 HB 501 Swing-Out Type	274 HB 505 Swing-In Type	
2-8 by 2-6	8	4	\$3.25	\$3.45	19
2-8 by 3-0	8	4	3.32	3.52	22
2-8 by 3-6	8	4	3.43	3.63	24
2-8 by 4-0	8	4	3.49	3.69	27
2-10 by 4-6	10	5	3.98	4.18	29
2-10 by 5-2	10	5	4.10	4.30	33

**\$3<sup>25</sup>**  
Pair

2-8x2-6



## CASEMENT SASH



Wards Casement Sash are identical in construction with our French Windows. Made of the same high quality seasoned clear western Pondosa Pine carefully machined and smoothly sanded, they take a splendid finish, either stain and varnish, paint or enamel. They have the same fine glazing and all the other quality construction features of our French Windows.

Wards low price is possible only because we sell large quantities giving you the benefit of our savings and ship them to you direct from the mill with all in-between profits eliminated. Furnished in pairs rabbed to swing-in or to swing-out. All full 1 3/8 inches thick.

Shipped from Philadelphia, Pa. State size when ordering.

**\$249**

Pair

2-8x2-6

For Freight  
Rates  
See Page 2

Size of Opening Width Height Ft. In. Ft. In.	274 HB 503 Swing Out Price Per Pair	274 HB 502 Swing In Price Per Pair	Average Ship. Wt. Lbs.
2-8 by 2-6	\$2.49	\$2.67	19
2-8 by 3-0	2.75	2.95	22
2-8 by 3-6	2.94	3.14	24
2-8 by 4-0	3.16	3.36	27

## Frames for FRENCH WINDOWS COLONIAL and CASEMENT SASH

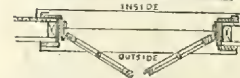
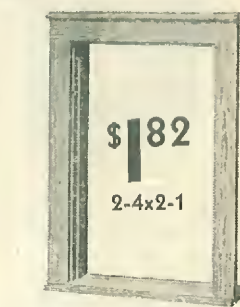
Made of clear Pondosa White Pine. Outside casing is 1 1/2 by 4 1/2 inches. Stiles and head jambs 1 3/4 by 5 1/4 inches. Frames for in-swinging sash only have jambs and heads rabbed 1/2 by 1 3/8 inches to receive sash. Sills are 1 3/4 inches thick and 7 1/4 inches wide. See detail sketch below for construction of sills. Drip cap is 1 1/2 by 1 3/8 inches.

These Frames are for 2 by 4 stud frame wall construction. The illustration at the right shows frame for sash to swing-out. Cross section below illustration shows how sash are hung to swing-out.

Shipped from Philadelphia, Pa. State size when ordering.

**\$182**

2-4x2-1



Write for special prices on  
Frames for Brick, Stone,  
Brick Veneer or Stucco con-  
struction.

## COLONIAL SASH



Pilgrim

**\$102**

Each  
2-4x2-1



Plymouth

For those little windows in the hallway—on each side of the fireplace—on the stairway landing—you'll find Wards Colonial Sash are just the thing. Made of clear Pondosa Pine full 1 3/8 inches thick. Same fine construction as our French Windows. Can be used as stationary or swinging windows. Furnished to swing-in or to swing-out (see construction details at right).

Shipped from Philadelphia, Pa. State size when ordering.

Size of Opening Width Height Ft. In. Ft. In.	Pilgrim		Plymouth		Average Ship. Wt. Lbs.
	Swing Out 274 HB 512 Price Each	Swing In 274 HB 515 Price Each	Swing Out 274 HB 511 Price Each	Swing In 274 HB 514 Price Each	
2-4 by 2-1	\$1.15	\$1.29	\$1.02	\$1.17	10
2-4 by 2-5	1.27	1.43	1.16	1.33	12
2-4 by 2-9	1.39	1.50	1.26	1.41	14

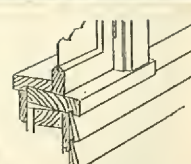


All Wards Sash  
and Frames are  
**ABSOLUTELY  
WATER-TIGHT**



Frame for  
Sash to  
Swing-In

Frame for  
Sash to  
Swing-Out



The bottom rail of Sash to swing-in is rabbed to fit over edge of sill as shown. A half round groove is cut in the bottom of the sash and in the top of the sill. Any water blown in between sash and sill must fall into this groove and drain to the center of sill where a slot allows it to run out. This construction makes Wards in-swinging sash absolutely water tight. Note also the water tight construction of sash to swing-out.



# Are you paying for STORM SASH

## without HAVING them?



**89¢**  
And Up

### TWO LIGHT STORM SASH

As good as modern craftsmanship and high grade materials can make them. Yet notice our low prices.

Clear Pondosa Pine 1½ inches thick, with side and top rails 2 inches wide and bottom rails 4½ inches wide. Glazed with strong clear glass. Ventilators furnished in bottom rail for 15¢ extra. If your window opening is only ½-inch narrower or 1½ inches shorter than openings listed, order stock size and cut down to fit.

Always state width first. Shipped from mill in Philadelphia, Pa. See Page 2 for Low Freight Rates.

Size of Glass	Size of Opening Width Ft. In. Height Ft. In.	Shipping Weight Pounds	274 HB 556 Price Each
12x20 inches	1-4 x 3-11½	13	89¢
14x20 inches	1-6 x 3-11½	14	95¢
14x24 inches	1-6 x 4-7½	14	\$1.06
14x26 inches	1-6 x 4-11½	15	1.09
14x28 inches	1-6 x 5-3½	15	1.24
16x20 inches	1-8 x 3-11½	15	\$1.01
16x24 inches	1-8 x 4-7½	17	1.11
16x26 inches	1-8 x 4-11½	17	1.26
16x28 inches	1-8 x 5-3½	18	1.32
16x30 inches	1-8 x 5-7½	19	1.37
18x20 inches	1-10 x 3-11½	15	1.10
18x22 inches	1-10 x 4-3½	16	1.22
18x24 inches	1-10 x 4-7½	17	1.29
18x26 inches	1-10 x 4-11½	18	1.36
18x28 inches	1-10 x 5-3½	19	1.43
18x30 inches	1-10 x 5-7½	20	1.52
20x20 inches	2-0 x 3-11½	18	1.18
20x22 inches	2-0 x 4-3½	19	1.32
20x24 inches	2-0 x 4-7½	19	1.33
20x26 inches	2-0 x 4-11½	20	1.39
20x28 inches	2-0 x 5-3½	21	1.45
20x30 inches	2-0 x 5-7½	22	1.59
22x24 inches	2-2 x 4-7½	20	1.48
22x26 inches	2-2 x 4-11½	21	1.54
22x28 inches	2-2 x 5-3½	22	1.64
22x30 inches	2-2 x 5-7½	23	1.77
24x16 inches	2-4 x 3-3½	19	1.15
24x18 inches	2-4 x 3-7½	20	1.19
24x20 inches	2-4 x 3-11½	21	1.34
24x22 inches	2-4 x 4-3½	22	1.47
24x24 inches	2-4 x 4-7½	23	1.52
24x26 inches	2-4 x 4-11½	24	1.54
24x28 inches	2-4 x 5-3½	25	1.64
24x30 inches	2-4 x 5-7½	26	1.76
26x14 inches	2-6 x 2-11½	23	1.10
26x16 inches	2-6 x 4-7½	24	1.57
26x26 inches	2-6 x 4-11½	24	1.64
26x28 inches	2-6 x 5-3½	25	1.80
26x30 inches	2-6 x 5-7½	26	1.95
28x24 inches	2-8 x 4-7½	24	1.69
28x26 inches	2-8 x 4-11½	25	1.80
28x28 inches	2-8 x 5-3½	26	1.90
28x30 inches	2-8 x 5-7½	27	1.95
28x32 inches	2-8 x 5-11½	28	2.35
30x24 inches	2-10 x 4-7½	26	1.76
30x26 inches	2-10 x 4-11½	26	1.95
30x28 inches	2-10 x 5-3½	27	1.97
30x30 inches	2-10 x 5-7½	28	2.22
30x32 inches	2-10 x 5-11½	29	2.25
32x24 inches	3-0 x 4-7½	30	1.90
32x28 inches	3-0 x 5-3½	32	2.17
32x30 inches	3-0 x 5-7½	34	2.25
36x20 inches	3-4 x 3-11½	27	1.85
36x24 inches	3-4 x 4-7½	28	1.99
36x26 inches	3-4 x 4-11½	31	2.42
36x28 inches	3-4 x 5-3½	33	2.60
40x28 inches	3-8 x 5-3½	33	3.94
40x30 inches	3-8 x 5-7½	35	3.98
44x28 inches	4-0 x 5-3½	39	5.25
44x30 inches	4-0 x 5-7½	41	5.98

## The EXTRA MONEY you spend for fuel will BUY a Complete SET

YOU'LL save enough in the first year alone to pay a big part of your Storm Sash bill . . . and after they have paid for themselves they will go on saving you money in fuel bills for years to come. So why not enjoy the comforts of warm, easily heated rooms NOW instead of putting up with a chilly, drafty, hard to heat home that may cause sickness?

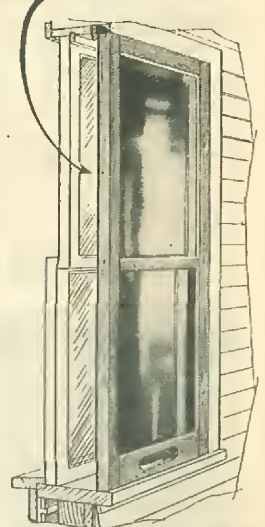
Zero weather—icy blasts—angry storms of sleet and snow hold no terror for folks who equip their homes with Wards Storm Sash. Their homes are warm and cozy no matter how cold the wind blows.

### How Wards Storm Sash Cut Coal Bills

The Department of Commerce, Bureau of Standards at Washington, D. C., after a thorough investigation of Storm Sash, reports as follows: "Storm Sash on a weather-stripped house will save 25 to 30 per cent on the cost of fuel." This saving makes the money you spend for Storm Sash a profitable investment. It's easy to see why a saving of 25% to 30% on fuel costs is possible when you look at the picture at right. Without storm sash, the cold air rushing against the outside of the glass chills it and lowers the temperature of the room near the window 10 to 15 degrees.

Storm Sash forms a dead air space between the two thicknesses of glass serving as a blanket of insulation between the cold outside and the warm room inside.

INSULATING AIRSPACE



### STORM DOOR

If your home is chilly, drafty and hard to heat, a new storm door will shut out the cold air that slips in under regular doors. It will prevent drafts, fuel wastes, and much of the discomfort of a chilly house.

**\$470**

Wards Storm Doors will insulate your entrance doors in the same manner that storm sash insulate windows. As a result, your entry hall will be as warm and cozy as the rest of your home.

**2-6x6-7**

At Wards low price you can have this efficient, heavy duty door for so little that we feel it's an investment you will surely want to take advantage of. The savings in fuel alone will soon repay the cost.

Our doors are strongly built of clear Pondosa Pine. Full 1½ inches thick. Furnished a little larger than stock door sizes, so they can be trimmed down to make a perfect fit. Shipped to you in natural wood smoothly sanded, ready for varnish or paint.

Width	Height	Shipping Weight	274 HB 484 Price Each
2 ft. 6 in.	6 ft. 7 in.	54 lbs.	\$4.70
2 ft. 8 in.	6 ft. 9 in.	59 lbs.	4.85
2 ft. 8 in.	7 ft. 1 in.	62 lbs.	5.10
3 ft. 0 in.	6 ft. 9 in.	62 lbs.	4.90
3 ft. 0 in.	7 ft. 1 in.	68 lbs.	5.10

Shipped from Mill in Philadelphia, Pa. Low Freight Rates on Page 2.

### FOUR-LIGHT STORM SASH

Same quality and construction as our 2-light Storm Sash. Shipped from Mill in Philadelphia, Pa.



Size of Glass	Size of Opening Width Ft. In. Height Ft. In.	Shipping Weight Pounds	274 HB 562 Clear Glass
10x20 inches	2-1 x 3-11½	36	\$1.35
10x22 inches	2-1 x 4-3½	38	1.42
10x24 inches	2-1 x 4-7½	40	1.43
10x26 inches	2-1 x 4-11½	41	1.58
10x28 inches	2-1 x 5-3½	42	1.59
12x20 inches	2-5 x 3-11½	38	1.34
12x22 inches	2-5 x 4-3½	40	1.51
12x24 inches	2-5 x 4-7½	42	1.52
12x26 inches	2-5 x 4-11½	43	1.60
12x28 inches	2-5 x 5-3½	44	1.66
12x30 inches	2-5 x 5-7½	45	1.97
14x20 inches	2-9 x 3-11½	40	1.59
14x22 inches	2-9 x 4-3½	42	1.73
14x24 inches	2-9 x 4-7½	44	1.74
14x26 inches	2-9 x 4-11½	45	1.80
14x28 inches	2-9 x 5-3½	46	2.01
14x30 inches	2-9 x 5-7½	47	2.17
14x32 inches	2-9 x 5-11½	49	2.30
15x24 inches	2-11 x 4-7½	44	1.89



# See how little it costs to TURN YOUR COLD PORCH into a COZY EXTRA ROOM



Cozy  
Porch  
Enclosed  
with Wards  
Storm Sash

## Ward Experts Will Figure Your PORCH ENCLOSURE for You Without Obligation

**I**N WINTER a cozy warm room, all enclosed in glass with bright sunlight streaming in every window. In summer a cool airy spot with screens to keep out flies and mosquitoes. What a healthy place for children and grown folks to live in... and that's just what you'll do... you'll live in it. The sun porch will be the most popular room in the house.

You'll be surprised how little it costs, when you buy your materials from Wards. Here are some figures to give you an idea of just how little you have to spend to completely enclose your porch.

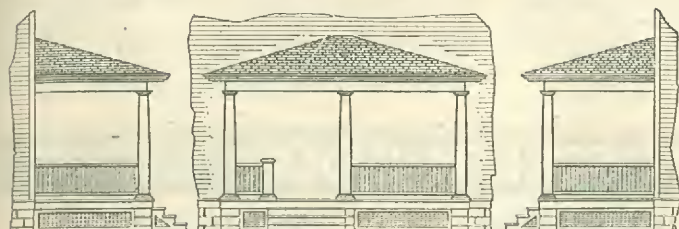
For a porch 6 feet by 10 feet approximately.....	<b>\$32.00</b>
For a porch 8 feet by 16 feet approximately.....	49.00
For a porch 9 feet by 20 feet approximately.....	61.00

The above prices are only average, of course. Every porch is different and the price varies more or less depending upon the size, the type of materials selected and other specifications.

## Free Estimate Without Obligation

If you wish, Wards Engineering Service Department will gladly furnish you with a *free* estimate on the cost of all materials for completely enclosing your porch. We will help you with the selection of proper materials. Ask for Information Blank No. 16251. Answer the simple questions it contains. When you return it to us, properly filled out, we will prepare Free estimate. Send a snap-shot picture of your porch if possible.

If you do not wish to pay all cash, Wards Budget Plan will enable you to enjoy the comforts of a porch enclosure while you are paying for it. A down payment of \$3.00 to \$5.00 will insure delivery of almost any enclosure. See Page 3 for Budget Plan Details.



Front and Side Views of Porch Before Enclosing

## 8 AND 12 LIGHT STORM SASH



\$34

1-11x4-7 1/2



\$38

2-4 1/2 x3-11 1/2



\$80

1-10 1/4 x4-5 3/4



**I**F YOU have 8 or 12-light windows in your home you will want this style of Storm Sash. They are made to same specifications as our 2-light Storm Sash on opposite page. You can depend upon them to stand up under many years of hard usage.

These designs are also very popular for Porch Enclosures. Our Engineering Service Department will be glad to give you complete information on how to use this type of Storm Sash for Porch Enclosure purposes.

### 274 HB 564—8 Light Storm Sash

Size of Glass	Size of Opening		Price Each
	Feet Inches	Feet Inches	
9 by 12	1-11 by 4-7 1/2		\$1.34
10 by 12	2-1 by 4-7 1/2		1.35
10 by 14	2-1 by 5-3 1/2		1.52
12 by 14	2-5 by 5-3 1/2		1.68
12 by 16	2-5 by 5-11 1/2		1.95

When ordering by glass size, give size in inches. When ordering by opening size, give size in feet and inches. *Always give width first.* Average ship. wt. 30 lbs. For Freight Rates, See Page 2.

Ventilators furnished in bottom rail of all storm and Porch Enclosure Sash at cost of 15c extra.

### 274 HB 566—12 Light Storm Sash

Glass Size in Inches	Size of Opening		Price Each
	Feet Inches	Feet Inches	
8 by 10	2-4 1/2 by 3-11 1/2		\$1.38
8 by 12	2-4 1/2 by 4-7 1/2		1.54
9 by 12	2-7 1/2 by 4-7 1/2		1.64
9 by 14	2-7 1/2 by 5-3 1/2		1.85
10 by 12	2-10 1/2 by 4-7 1/2		1.70
10 by 14	2-10 1/2 by 5-3 1/2		1.89
10 by 16	2-10 1/2 by 5-11 1/2		2.30

A very popular type of porch enclosure sash. Made of Clear Ponderosa Pine full 1 1/4 inches thick and glazed with best quality clear glass. Average shipping weight 30 pounds. When ordering give size in feet and inches.

*Be sure to give width first.*

Size of Opening		274 HB 599
Feet Inches	Feet Inches	Price Each
1-10 1/4 by 4-5 3/4		\$1.80
2-0 1/4 by 4-5 3/4		1.85
2-2 1/4 by 4-5 3/4		1.95
2-4 1/4 by 4-5 3/4		1.98
2-6 1/4 by 4-5 3/4		2.08
1-10 1/4 by 5-1 3/4		1.96
2-0 1/4 by 5-1 3/4		2.01
2-2 1/4 by 5-1 3/4		2.14
2-4 1/4 by 5-1 3/4		2.20
2-6 1/4 by 5-1 3/4		2.35

Shipped from Mill in Philadelphia, Pa. For Wards BUDGET PLAN see Page 3.

Shipped from Mill in Philadelphia, Pa.

A Complete Line of Quality Paints... see Wards General Catalog

BA MONTGOMERY WARD 67



# 3 Reasons Why WARDS SCREENS Give You MORE FOR YOUR MONEY!

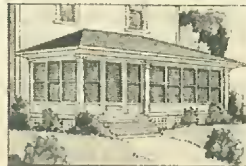
We Build them with Strong *Mortise and Tenon* Joints—securely held with steel pins—though other screens may sag and loosen after one season . . . you can depend on Wards Screens to stay Tight and Rigid.

We Specify None but the Best Clear *Pondosa Pine Lumber*.

We insist on 16-mesh Rust Resistant Wire . . . no wonder you get *Extra Service*.

Then we make all our window screens full  $1\frac{1}{8}$  inches thick to give them extra strength and  $1\frac{1}{2}$  inches longer than our standard window frames to allow for fitting and for use with subsill frames.

**You'll Really Get the Good  
Out of Your Porch if You Enclose It!**



Write for  
Free Estimate

Buy On Wards  
BUDGET PLAN  
See Page 3

Let our staff of expert estimators tell you how little it will cost to completely enclose your porch with high quality screens. Write for special information blank 16251, answer simple questions and prepare sketches as called for in this blank. When you return the blank to our Engineering Service Department you will then be sent a free estimate, including all transportation charges to your station. You'll be surprised at the money we can save you.

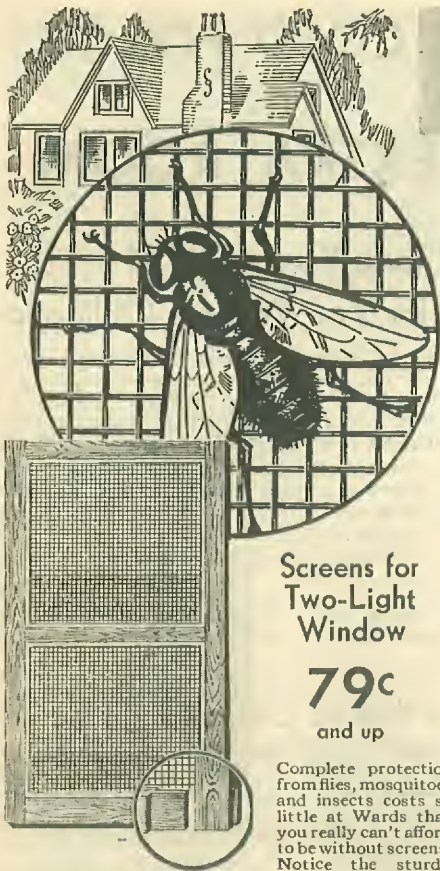
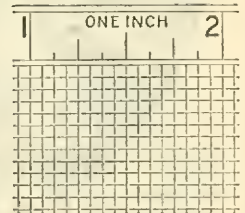
**Our Fine 16-Mesh Wire  
Is the Despair of Insect Pests**

Wards Prices Are  
About What Others  
Ask for Screens With  
Ordinary Wire

Flies, insects and mosquitoes that carry disease just can't get into your home through 16-mesh wire. It means complete protection and comfort.

You have a choice of either rust-resisting galvanized steel wire or the finest rust-proof copper bronze wire. Of course, the copper bronze costs a little more, but it lasts longer.

This is just another instance of the fine quality put into all Wards building materials.



Screens for  
Two-Light  
Window

**79c**

and up

Complete protection from flies, mosquitoes and insects costs so little at Wards that you really can't afford to be without screens. Notice the sturdy construction, the

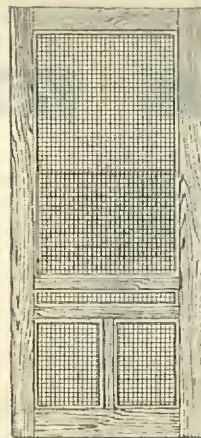
mortise and tenon joint securely fastened with steel pins. That's why Wards screens can't sag or warp.

These screens come to you smoothly sanded and ready to paint. Average ship. wt. 30 pounds. *Shipped from Philadelphia, Pa.* See Wards General Catalog for Window Screen Hardware.

Size of Glass	Size of Frame Opening Width Ft. In. Height Ft. In.	274 HB 780 Each—with Gal. Wire	274 HB 781 Each—with Bronze Wire
12x20	1- 4x3-11 1/2	79c	89c
14x20	1- 6x3-11 1/2	87c	96c
14x24	1- 6x4- 7 1/2	94c	\$1.07
14x26	1- 6x4-11 1/2	99c	1.13
14x28	1- 6x5- 3 1/2	\$1.02	1.17
16x20	1- 8x3-11 1/2	91c	1.03
16x24	1- 8x4- 7 1/2	99c	1.14
16x26	1- 8x4-11 1/2	\$1.04	1.20
16x28	1- 8x5- 3 1/2	1.07	1.26
16x30	1- 8x5- 7 1/2	1.12	1.31
18x20	1-10x3-11 1/2	94c	1.10
18x22	1-10x4- 3 1/2	99c	1.16
18x24	1-10x4- 7 1/2	\$1.04	1.21
18x26	1-10x4-11 1/2	1.07	1.29
18x28	1-10x5- 3 1/2	1.12	1.34
18x30	1-10x5- 7 1/2	1.18	1.40
20x20	2- 0x3-11 1/2	99c	1.16
20x22	2- 0x4- 3 1/2	\$1.04	1.21
20x24	2- 0x4- 7 1/2	1.07	1.29
20x26	2- 0x4-11 1/2	1.12	1.36
20x28	2- 0x5- 3 1/2	1.18	1.41
20x30	2- 0x5- 7 1/2	1.23	1.49
22x24	2- 2x4- 7 1/2	1.12	1.37
22x26	2- 2x4-11 1/2	1.18	1.44
22x28	2- 2x5- 3 1/2	1.23	1.51
22x30	2- 2x5- 7 1/2	1.28	1.59
24x16	2- 4x3- 3 1/2	96c	1.14
24x18	2- 4x3- 7 1/2	\$1.01	1.21
24x20	2- 4x3-11 1/2	1.06	1.29
24x22	2- 4x4- 3 1/2	1.12	1.37
24x24	2- 4x4- 7 1/2	1.18	1.44
24x26	2- 4x4-11 1/2	1.23	1.51
24x28	2- 4x5- 3 1/2	1.28	1.60
24x30	2- 4x5- 7 1/2	1.33	1.67
26x14	2- 6x2-11 1/2	95c	1.25
26x24	2- 6x4- 7 1/2	\$1.21	1.52
26x26	2- 6x4-11 1/2	1.28	1.59
26x28	2- 6x5- 3 1/2	1.33	1.67
26x30	2- 6x5- 7 1/2	1.38	1.74
28x24	2- 8x4- 7 1/2	1.26	1.59
28x26	2- 8x4-11 1/2	1.31	1.67
28x28	2- 8x5- 3 1/2	1.38	1.76
28x30	2- 8x5- 7 1/2	1.43	1.84
28x32	2- 8x5-11 1/2	1.50	1.93
30x24	2-10x4- 7 1/2	1.31	1.64
30x26	2-10x4-11 1/2	1.36	1.73
30x28	2-10x5- 3 1/2	1.43	1.83
30x30	2-10x5- 7 1/2	1.48	1.92
30x32	2-10x5-11 1/2	1.55	2.02
32x24	3- 0x4- 7 1/2	1.35	1.73
32x28	3- 0x5- 3 1/2	1.48	1.92
32x30	3- 0x5- 7 1/2	1.53	2.02
36x20	3- 4x3-11 1/2	1.45	1.85
36x24	3- 4x4- 7 1/2	1.55	2.04
36x26	3- 4x4-11 1/2	1.62	2.16
36x28	3- 4x5- 3 1/2	1.70	2.27
40x28	3- 8x5- 3 1/2	1.71	2.27
40x30	3- 8x5- 7 1/2	1.77	2.39
44x28	4- 0x5- 3 1/2	1.81	2.45
44x30	4- 0x5- 7 1/2	1.89	2.56

## HERE'S YOUR SCREEN DOOR

WHY LOOK FURTHER  
... AND PAY MORE?

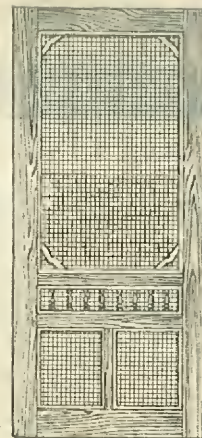


For  
Budget  
Plan  
See  
Page 3

**\$1.69**

2-6 by 6-6

12-Mesh  
Wire

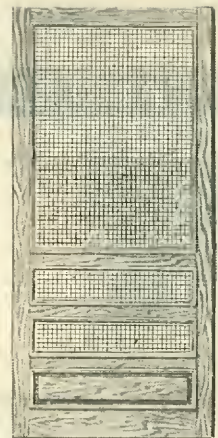


Low  
Freight  
Rates  
See  
Page 2

**\$2.19**

2-6 by 6-6

14-Mesh  
Wire



**\$2.98**

2-8 by 6-8

16-Mesh  
Wire

**We Built a  
Really Good Screen Door  
to Sell for Practically  
No Money at All...**

What a value! You'll look a long time before you match this quality at anywhere near Wards low price. A well made screen door in every respect. Clear Yellow Pine full  $\frac{1}{2}$  inch thick. Stiles are 3 inches wide. Blind mortised and tenoned joints. Furnished with 12-mesh black wire screen cloth tightly stretched and firmly held with flush molding. Finished with two coats of good varnish.

*Shipped from Stock.*  
174 HB 1045—State size.

Width Ft. In.	Height Ft. In.	Ship. Wt.	Each
2- 6	6- 6	19 lbs.	\$1.69
2- 8	6- 8	20 lbs.	1.75
2-10	6-10	21 lbs.	1.85
2-10	7- 0	21 lbs.	1.90
3- 0	7- 0	22 lbs.	1.95

**... Then Designed Two Better Doors  
40% Thicker and Stronger  
... Made to Last for Many Seasons!**

Although extra strong and sturdy, you'll find that Wards low price means a big saving for you. Made of clear Pondosa Pine full  $\frac{1}{2}$  inches thick with 3-inch stiles. Covered with 14-mesh galvanized screen cloth, tightly stretched and firmly held with flush molding. Blind mortised and tenoned joints. Finished with two coats of high grade varnish.

*Shipped from Stock.*  
174 HB 1033—State size.

Width Ft. In.	Height Ft. In.	Ship. Wt.	Each
2- 6	6- 6	20 lbs.	\$2.19
2- 8	6- 8	21 lbs.	2.25
2-10	6-10	21 lbs.	2.35
2-10	7- 0	22 lbs.	2.40
3- 0	7- 0	22 lbs.	2.45

A beauty! Extra strong, too, for those added seasons of service. Made of clear Pondosa Pine, full  $1\frac{1}{8}$  inches thick with 4-inch stiles and rails. Solid panel insert. Extra fine 16-mesh galvanized wire, tightly stretched and firmly held with molding. Blind mortised and tenoned joints. Finished with two coats of good quality varnish.

*Shipped from Stock. State size.*  
Average shipping weight 21 pounds.

Width Ft. In.	Height Ft. In.	174 HB 1035 16-Mesh Galv. Wire	174 HB 1036 16-Mesh Bronze Wire
2- 8	6- 8	\$2.98	\$3.40
2-10	6-10	3.10	3.50
2-10	7- 0	3.15	3.55
3- 0	7- 0	3.25	3.60

**Wards BUDGET PLAN... See Page 3**



# Here's How Wards Combination STORM and SCREEN DOOR Works the Year Round to Your Advantage

1. You save the price of one door
2. Change from Screen to Storm Door in 5 minutes
3. You need never take the door itself off its hinges!



**for Summer**  
Take Out Storm Panel  
Put In Screen



**for Winter**  
Remove Screen  
Put in Storm Panel

A COMBINATION Door is in use all the year around—it provides the protections of a fine screen door in the summer and a dependable storm door in the winter. It's a *time-saving* and *space-saving* door—the kind everyone wants. That's why Wards have made an extra fine one at an extra low price.

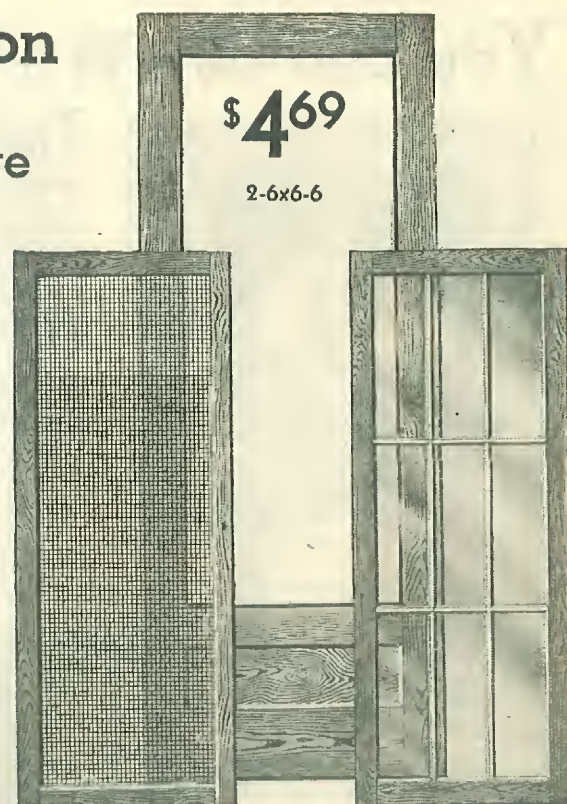
The frame is full 1½ inches thick, carefully and expertly constructed of selected, kiln-dried, clear Pondosa Pine, smoothly sanded ready to paint. Stiles, 4¾ inches wide, firmly mortised, tenoned, pinned and glued, make this a much sturdier door than ordinary screen or storm doors.

In summer you use the screen panel in this sturdy frame. To give your home complete protection from flies and mosquitoes, we've made this screen of 16-mesh wire. Small insects that enter through ordinary screen, just can't get in.

It's just a five minute job to take out the screen and put in the storm panel which is glazed with strong, clear glass. Then you have a storm door that keeps chilly drafts out of your home.

Doors are furnished ½ in. wider and 1½ in. longer than specified below to allow for accurate fitting. *Shipped from Stock.* Freight is fast and economical. See Rates on Page 2.

Opening Size		174 HB 483 16 Mesh Galvanized Wire	174 HB 482 16 Mesh Bronze Wire	Ship. Wt. Each
Width	Height			
2 ft. 6 in.	6 ft. 6 in.	\$4.69	\$4.85	77 lbs.
2 ft. 6 in.	6 ft. 8 in.	4.75	5.00	80 lbs.
2 ft. 8 in.	6 ft. 8 in.	4.75	5.00	85 lbs.
2 ft. 8 in.	6 ft. 10 in.	4.98	5.23	90 lbs.
2 ft. 8 in.	7 ft. 0 in.	4.98	5.23	95 lbs.
2 ft. 10 in.	6 ft. 8 in.	5.05	5.30	90 lbs.
2 ft. 10 in.	6 ft. 10 in.	5.10	5.35	93 lbs.
2 ft. 10 in.	7 ft. 0 in.	5.15	5.40	95 lbs.
3 ft. 0 in.	6 ft. 8 in.	5.15	5.40	95 lbs.
3 ft. 0 in.	7 ft. 0 in.	5.25	5.50	99 lbs.



\$4<sup>69</sup>

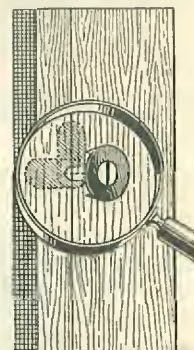
2-6x6-6

## Easy and Dependable Fastener Adjustments

### Hold Panels—They Can't Loosen and Rattle

Only a screw driver and a few minutes of your time are required to substitute the glass panel for the screen or vice versa. The four Fastener Adjustments on the frame enable this quick and easy change. They are located on the inside of the door and cannot be tampered with from outside.

One-quarter turn of the screw releases the screen or glass panel—one-quarter turn back locks it to the frame securely and rigidly. It cannot rattle—it cannot come loose.



## MATERIAL for MAKING SCREENS

### Knockdown Screen Frames

Make your own Window Screens and save money! And because of Wards extra low prices, you can save still more—considerably more. Just compare these prices with others and see for yourself the money you save.

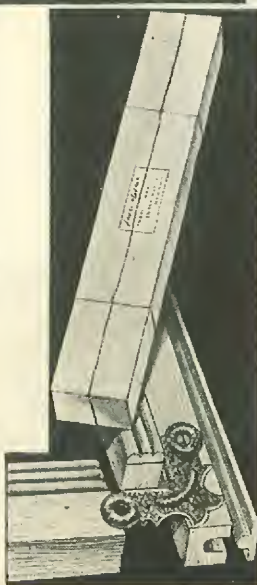
These Screen Frames are made of selected clear Pondosa Pine 1½ inches thick by 1¾ inches wide. Each frame includes two side runners which fasten to window frames; 2 side rails; a top and bottom rail; four brackets to brace corners securely; mitered moulding to hold screen in place and all the necessary nails and screws.

The Frames and accessories are safely enclosed in a handy carton (shown at right) for your convenience.

Available. Shipped from Stock.

Art. No.	Inches	Ship. Wt.	Each
474 HB 1016	30 by 30	3 lbs. 4 oz.	35c
474 HB 1017	36 by 36	3 lbs. 8 oz.	42c
474 HB 1018	48 by 48	4 lbs.	58c
474 HB 1019	42 by 84	7 lbs.	88c

See Wards General Catalog for a Complete Line of Black, Galvanized and Copper Screen Wire.



## 4, 8 and 12 LIGHT WINDOW SCREENS

Made to fit standard 4, 8 and 12-Light Windows. Manufactured from finest quality clear Pondosa Pine—the same high quality and construction as our 2-Light Screens on the opposite page.

Will not sag or warp as ordinary screens do. Furnished smoothed and sanded ready for painting or varnishing. Average shipping weight each, 15 pounds.

### Screens to Fit 4-Light Windows

Size of Glass	Size of Opening Width Height Ft. In. Ft. In.	274 HB 782 Each—With 16 Mesh Galvanized Wire	274 HB 783 Each—With 16 Mesh Copper Bronze Wire
10x20	2-1 x 3-11½	98c	\$1.19
10x22	2-1 x 4-3½	\$1.07	1.30
10x24	2-1 x 4-7½	1.11	1.31
10x26	2-1 x 4-11½	1.16	1.39
10x28	2-1 x 5-3½	1.21	1.46
12x20	2-5 x 3-11½	1.09	1.33
12x22	2-5 x 4-3½	1.14	1.41
12x24	2-5 x 4-7½	1.19	1.49
12x26	2-5 x 4-11½	1.24	1.57
12x28	2-5 x 5-3½	1.30	1.64
12x30	2-5 x 5-7½	1.36	1.73
14x20	2-9 x 3-11½	1.16	1.46
14x22	2-9 x 4-3½	1.23	1.54
14x24	2-9 x 4-7½	1.28	1.63
14x26	2-9 x 4-11½	1.35	1.71
14x28	2-9 x 5-3½	1.40	1.80
14x30	2-9 x 5-7½	1.47	1.89
14x32	2-9 x 5-11½	1.52	1.97

Shipped promptly from Factory in Philadelphia, Pa.

### Screens to Fit 8-Light Windows

Size of Glass	Size of Opening Width Height Ft. In. Ft. In.	274 HB 784 Each—With 16 Mesh Galvanized Wire	274 HB 785 Each—With 16 Mesh Copper Bronze Wire
9x12	1-11 x 4-7½	\$1.04	\$1.25
10x12	2-1 x 4-7½	1.07	1.31
10x14	2-1 x 5-3½	1.18	1.48
12x14	2-5 x 5-3½	1.30	1.68
12x16	2-5 x 5-11½	1.44	1.89

Shipped promptly from Factory in Philadelphia, Pa.

### Screens to Fit 12-Light Windows

Size of Glass	Size of Opening Width Height Ft. In. Ft. In.	274 HB 786 Each—With 16 Mesh Galvanized Wire	274 HB 787 Each—With 16 Mesh Copper Bronze Wire
8x10	2-4½ x 3-11½	\$1.06	\$1.20
8x12	2-4½ x 4-7½	1.18	1.48
9x12	2-7½ x 4-7½	1.26	1.62
10x12	2-10½ x 4-7½	1.31	1.71
10x14	2-10½ x 5-3½	1.43	1.89
10x16	2-10½ x 5-11½	1.55	2.10

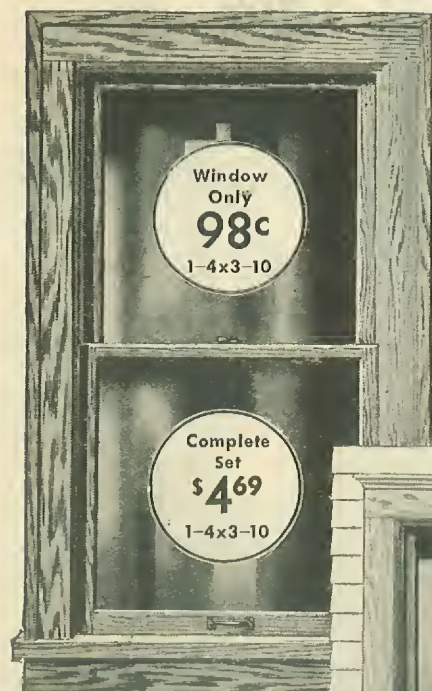
Shipped promptly from Factory in Philadelphia, Pa.

### WARDS BUDGET PLAN

Buy this convenient way—see our Budget Plan on Page 3.



# You can buy **WINDOWS** anywhere . . . but not These Windows Come in Complete Sets



Above is an interior view, showing Wards Two-Light Window finished with attractively designed Craftsman backband trim.

In most cases small windows such as illustrated have only one sash lift—but we furnish two with each set regardless of the size.

The exterior view at the right shows the same window set in a plain cap frame.

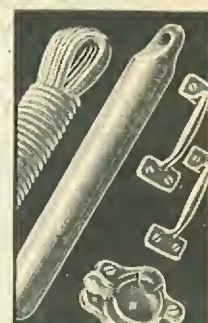
Both the Craftsman Trim and the plain cap frame are part of our special Window Set offer.



**THIS UNUSUAL Combination Offer** includes—attractive two-light window shown at left—plain cap Pondosa frame (No. 274 HB 623) with 1½ in. Outside Casings and jam-proof pulleys—neatly designed interior Craftsman trim of clear Yellow Pine—four cast iron sash weights—two dull brass sash lifts and fastener and all the necessary sash cord. You save time in ordering. You get everything you need at one time—from one place—at one low, money-saving price. And you save money on freight charges—because we ship everything direct to you from the mill with all in-between profits eliminated.

The windows are made of clear Pondosa Pine, thoroughly seasoned and scientifically kiln-dried. Full 1½ inches thick with check or meeting rail where the upper and lower sash come together (see inset below). Strong mortise and tenon joints. All surfaces are carefully machined and sanded, ready to be finished. Best quality clear glass held by zinc points and high grade putty. Side rails are plowed and bored for sash cord.

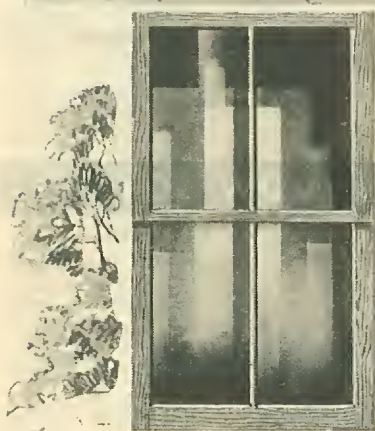
For complete description of Frames and Interior Trim see Pages 75 and 76. State width first. Shipped from Philadelphia, Pa.



Hardware included in Complete Window Sets

Size of Glass	Size of Opening Width   Height Ft.   In.   Ft.   In.		Window only		Complete Set		Size of Opening Width   Height Ft.   In.   Ft.   In.		Window only		Complete Set	
			274 HB 518 Window with Clear Glass	Ship. Wt. Lbs.	274 HB 1200 Window, Frame, Trim, Cord, Weights, Hardware	Ship. Wt. Lbs.			274 HB 518 Window with Clear Glass	Ship. Wt. Lbs.	274 HB 1200 Window, Frame, Trim, Cord, Weights, Hardware	Ship. Wt. Lbs.
	274 HB 518 Window with Clear Glass	Ship. Wt. Lbs.	274 HB 1200 Window, Frame, Trim, Cord, Weights, Hardware	Ship. Wt. Lbs.	274 HB 518 Window with Clear Glass	Ship. Wt. Lbs.	274 HB 1200 Window, Frame, Trim, Cord, Weights, Hardware	Ship. Wt. Lbs.				
12x20	1- 4x3-10	98c	13	\$4.69	82	24x24	2- 4x4- 6	\$1.52	22	\$5.96	100	
14x20	1- 6x3-10	\$1.03	14	4.78	84	24x26	2- 4x4-10	1.54	23	6.15	102	
14x24	1- 6x4- 6	1.15	15	5.20	86	24x28	2- 4x5- 2	1.64	27	6.41	110	
14x26	1- 6x4-10	1.19	16	5.55	88	24x30	2- 4x5- 6	1.77	29	6.75	114	
14x28	1- 6x5- 2	1.35	18	5.68	92	26x14	2- 6x2-10	1.19	16	5.60	88	
16x20	1- 8x3-10	1.10	14	4.89	84	26x24	2- 6x4- 6	1.57	23	6.15	102	
16x24	1- 8x4- 6	1.21	16	5.21	88	26x26	2- 6x4-10	1.64	25	6.32	106	
16x26	1- 8x4-10	1.37	17	5.50	90	26x28	2- 6x5- 2	1.80	29	6.63	114	
16x28	1- 8x5- 2	1.43	18	5.60	92	26x30	2- 6x5- 6	1.95	31	6.98	118	
16x30	1- 8x5- 6	1.49	18	5.72	92	28x24	2- 8x4- 6	1.69	25	6.45	106	
18x20	1-10x3-10	1.18	15	5.07	86	28x26	2- 8x4-10	1.80	29	6.63	114	
18x22	1-10x4- 2	1.32	16	5.35	84	28x28	2- 8x5- 2	1.90	30	6.84	116	
18x24	1-10x4- 6	1.37	18	5.54	92	28x30	2- 8x5- 6	1.95	32	7.10	120	
18x26	1-10x4-10	1.45	19	5.65	94	28x32	2- 8x5-10	2.35	33	7.74	122	
18x28	1-10x5- 2	1.51	20	5.97	96	30x24	2-10x4- 6	1.76	27	6.71	110	
18x30	1-10x5- 6	1.62	21	6.12	98	30x26	2-10x4-10	1.95	28	6.97	108	
20x20	2- 0x3-10	1.23	17	5.20	90	30x28	2-10x5- 2	1.97	30	7.10	116	
20x22	2- 0x4- 2	1.37	18	5.51	92	30x30	2-10x5- 6	2.22	34	7.47	124	
20x24	2- 0x4- 6	1.38	19	5.62	94	30x32	2-10x5-10	2.44	36	7.92	130	
20x26	2- 0x4-10	1.45	21	5.86	98	32x24	3- 0x4- 6	2.07	28	7.10	112	
20x28	2- 0x5- 2	1.51	23	6.09	102	32x26	3- 0x5- 2	2.35	33	7.70	122	
20x30	2- 0x5- 6	1.65	24	6.41	104	32x30	3- 0x5- 6	2.44	36	7.87	130	
22x24	2- 2x4- 6	1.41	21	5.87	98	36x20	3- 4x3-10	2.01	30	7.48	116	
22x26	2- 2x4-10	1.54	22	6.06	100	36x24	3- 4x4- 6	2.16	35	7.65	128	
22x28	2- 2x5- 2	1.64	23	6.32	102	36x26	3- 4x4-10	2.43	37	7.86	132	
22x30	2- 2x5- 6	1.76	24	6.62	104	36x28	3- 4x5- 2	2.60	38	8.11	134	
24x16	2- 4x3- 2	1.13	16	5.16	88	40x28	3- 8x5- 2	3.56	39	8.65	136	
24x18	2- 4x3- 6	1.29	18	5.61	92	40x30	3- 8x5- 6	3.59	42	8.75	142	
24x20	2- 4x3-10	1.34	19	5.61	94	44x28	4- 0x5- 2	4.68	43	9.95	144	
24x22	2- 4x4- 2	1.47	21	5.84	98	44x30	4- 0x5- 6	5.40	45	10.65	148	

## 4, 8, AND 12-LIGHT CHECK RAIL WINDOWS



274 HB 522

274 HB 522—4-Light Check Rail Window.



274 HB 524



274 HB 526

Prices include top and bottom sash glazed with good quality clear glass held with zinc points and putty.

274 HB 524—8-Light Check Rail Window

Size of Glass	Size of Opening		Price Each	Ship. Wt. Pounds
	Width Ft. In.	Height Ft. In.		
9x12	1-11 by 4- 6	6	\$1.40	16
10x12	2- 1 by 4- 6	6	1.41	16
10x14	2- 1 by 5- 2	2	1.60	20
12x14	2- 5 by 5- 2	2	1.77	20
12x16	2- 5 by 5-10	10	2.06	24

274 HB 526—12-Light Check Rail Window

Size of Glass	Size of Opening		Price Each	Ship. Wt. Pounds
	Width Ft. In.	Height Ft. In.		
8x10	2- 4 1/2 by 3-10	10	\$1.45	18
8x12	2- 4 1/2 by 4- 6	6	1.63	20
9x12	2- 7 1/2 by 4- 6	6	1.73	22
9x14	2- 7 1/2 by 5- 2	2	1.95	24
10x12	2-10 1/2 by 4- 6	6	1.80	22
10x14	2-10 1/2 by 5-10	10	1.99	24
10x16	2-10 1/2 by 5-10	10	2.43	28

## Good Quality—Low Prices Complete Stock—Prompt Shipment

Here are a few reasons why Wards Windows have so many fine qualities and give such satisfactory service. For materials . . . only the finest grade Pondosa Pine go into their construction . . . each one is carefully machined . . . sanded . . . and expertly put together. We have been told by many of our enthusiastic customers of their fine quality and dependability.

All Windows listed on this Page are Shipped from Chicago or Eastern Iowa. For Low Freight Rates on windows, see Page 2.

**IMPORTANT—Special size windows** can be furnished if required, but it will take a few days to make them up. Write us for prices. State size, giving width first.

Any size two light window can be furnished with Florentine glass for 30c extra; per light.



# at the Savings Wards mill-to-you prices offer All at One Low Price

**WARDS** Pilgrim and Plymouth windows are new and smart. That's why they have become increasingly popular with our customers for new and remodeling work.

And you can buy them in complete sets, too. Sets include windows with frames, trim and hardware exactly as described on Page 70—a complete window at one low price. There's no fuss—no muss, because each piece is cut on precision machinery to fit perfectly.

Made of clear Pondsosa Pine full 1 3/8 inches thick, strongly mortised and tenoned and glazed with clear glass. Check rail design (see Page 70).

The number of lights or divisions in upper sash depends upon width of glass in bottom sash. Top sash of Pilgrim and Plymouth windows divided as follows:  
*Bottom Glass 12 to 14 in. wide—Top sash 2 lts. wide*  
*Bottom Glass 16 to 28 in. wide—Top sash 3 lts. wide*  
*Bottom Glass 30 to 44 in. wide—Top sash 5 lts. wide*

Average shipping weights on windows only, 13 to 45 lbs.; on complete sets, 82 to 148 lbs.

State width first. All windows shipped from Philadelphia, Pa. For Freight Rates on windows, see Page 2.

WINDOW ONLY

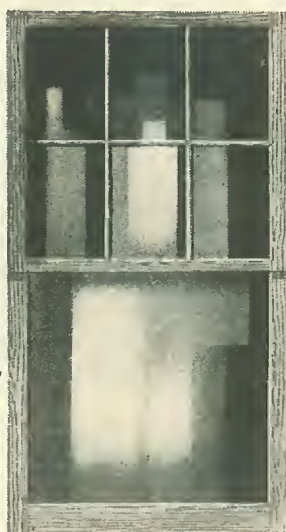
**\$1.26**

1-4x3-10

COMPLETE SET

**\$5.27**

1-4x3-10



PLYMOUTH

WINDOW ONLY

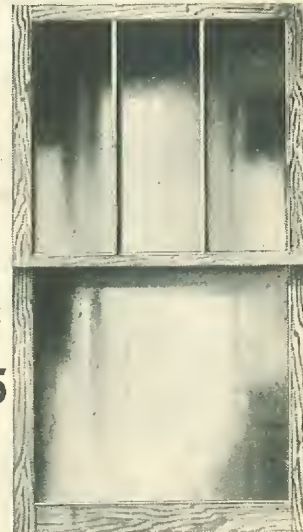
**\$1.15**

1-4x3-10

COMPLETE SET

**\$4.85**

1-4x3-10



PILGRIM

## Wards Offer these Attractive Windows in Complete Sets—For Your Convenience

Size of Bottom Glass	Size of Opening Width   Height Ft. In.   Ft. In.	WINDOWS ONLY		COMPLETE SETS		Size of Bottom Glass	Size of Opening Width   Height Ft. In.   Ft. In.	WINDOWS ONLY		COMPLETE SETS		Size of Bottom Glass	Size of Opening Width   Height Ft. In.   Ft. In.	WINDOWS ONLY		COMPLETE SETS	
		Pilgrim 274 HB 538 Clear Glass	Plymouth 274 HB 519 Clear Glass	Pilgrim Complete	Plymouth Complete			Pilgrim 274 HB 1222 Clear Glass	Plymouth 274 HB 1220 Clear Glass	Pilgrim Complete	Plymouth Complete			Pilgrim 274 HB 538 Clear Glass	Plymouth 274 HB 519 Clear Glass	Pilgrim Complete	Plymouth Complete
12x20	1-4 x 3-10	\$1.15	\$1.26	\$4.85	\$5.27	20x28	2-0 x 5-2	\$1.66	\$1.77	\$6.24	\$6.35	28x26	2-8 x 4-10	\$2.04	\$2.17	\$6.86	\$6.99
14x20	1-6 x 3-10	1.21	1.32	4.96	5.40	20x30	2-0 x 5-6	1.80	1.90	6.35	6.48	28x28	2-8 x 5-2	2.12	2.26	7.06	7.20
14x24	1-6 x 4-6	1.33	1.43	5.52	5.65	22x24	2-2 x 4-6	1.63	1.74	6.03	6.13	28x30	2-8 x 5-6	2.14	2.31	7.40	7.46
14x26	1-6 x 4-10	1.36	1.47	5.65	5.75	22x26	2-2 x 4-10	1.70	1.80	6.33	6.45	28x32	2-8 x 5-10	2.58	2.69	8.05	8.15
14x28	1-6 x 5-2	1.51	1.62	5.85	5.95	22x28	2-2 x 5-2	1.79	1.89	6.49	6.67	30x24	2-10 x 4-6	1.99	2.13	6.94	7.08
16x20	1-8 x 3-10	1.28	1.39	5.07	5.30	22x30	2-2 x 5-6	1.90	2.00	6.75	6.85	30x26	2-10 x 4-10	2.16	2.31	7.10	7.33
16x24	1-8 x 4-6	1.38	1.49	5.47	5.73	24x16	2-4 x 3-2	1.32	1.42	5.34	5.70	30x28	2-10 x 5-2	2.19	2.33	7.32	7.46
16x26	1-8 x 4-10	1.54	1.64	5.85	5.95	24x18	2-4 x 3-6	1.45	1.56	5.80	5.90	30x30	2-10 x 5-6	2.42	2.56	7.67	7.81
16x28	1-8 x 5-2	1.59	1.70	5.98	6.08	24x20	2-4 x 4-2	1.63	1.73	6.05	6.20	30x32	2-10 x 5-10	2.62	2.77	8.33	8.50
16x30	1-8 x 5-6	1.65	1.75	6.12	6.23	24x22	2-4 x 4-6	1.68	1.79	6.12	6.23	32x24	3-0 x 4-6	2.30	2.41	7.42	7.60
18x20	1-10 x 3-10	1.35	1.45	5.25	5.60	24x24	2-4 x 4-10	1.70	1.81	6.31	6.42	32x28	3-0 x 5-2	2.59	2.69	8.25	8.43
18x22	1-10 x 4-2	1.49	1.59	5.63	5.83	24x26	2-4 x 5-2	1.79	1.90	6.56	6.67	32x30	3-0 x 5-6	2.67	2.78	8.40	8.58
18x24	1-10 x 4-6	1.53	1.64	5.72	5.93	24x28	2-4 x 5-6	1.90	2.00	6.93	6.85	36x20	3-4 x 3-10	2.24	2.35	8.26	8.45
18x26	1-10 x 4-10	1.60	1.71	5.98	6.08	24x30	2-4 x 5-10	1.90	2.00	6.93	6.85	36x24	3-4 x 4-6	2.39	2.50	8.39	8.58
18x28	1-10 x 5-2	1.66	1.77	6.10	6.20	26x14	2-6 x 2-10	1.36	1.47	5.52	5.62	36x26	3-4 x 4-10	2.65	2.77	8.75	8.90
18x30	1-10 x 5-6	1.76	1.87	6.30	6.39	26x24	2-6 x 4-6	1.81	1.95	6.39	6.53	38x28	3-8 x 5-2	2.83	2.93	9.18	9.35
20x20	2-0 x 3-10	1.40	1.51	5.37	5.48	26x26	2-6 x 4-10	1.88	2.02	6.57	6.71	40x28	3-8 x 5-6	3.77	3.89	9.25	9.40
20x22	2-0 x 4-2	1.54	1.65	5.68	5.79	26x28	2-6 x 5-2	2.03	2.17	6.85	6.99	40x30	3-8 x 5-10	3.79	3.92	9.32	9.50
20x24	2-0 x 4-6	1.55	1.66	5.79	5.90	26x30	2-6 x 5-6	2.18	2.31	6.95	7.14	44x28	4-0 x 5-2	4.90	4.98	10.40	10.60
20x26	2-0 x 4-10	1.61	1.72	6.02	6.13	28x24	2-8 x 4-6	1.92	2.06	6.68	6.82	44x30	4-0 x 5-6	5.60	5.70	11.20	11.40

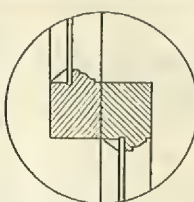
## PLAIN RAIL WINDOWS



274 HB 546

**\$1.07**

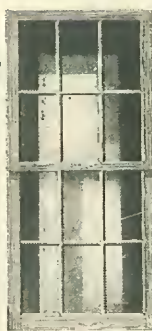
1-8 1/2 x 3-10



Plain rail Windows have no projection where the upper and lower sash meet. The upper sash must be made stationary in the frame. The lower then slides against the upper when raised or lowered. No sash weights required. Use Spring Bolts listed in our General Catalog. Always state width first.

**\$1.34**

2-4x3-10



274 HB 547

### Eight-Light Windows 1 1/8-Inch Thick

Size of Glass	Size of Opening Width   Height Ft. In.   Ft. In.	274 HB 546 Clear Glass	Shipping Weight
8x10 inches	1-8 1/2 x 3-10	\$1.07	14 pounds
9x12 inches	1-10 1/2 x 4-6	1.23	16 pounds
10x12 inches	2-0 1/2 x 4-6	1.30	18 pounds

### Twelve-Light Windows 1 1/8-Inch Thick

Size of Glass	Size of Opening Width   Height Ft. In.   Ft. In.	274 HB 547 Clear Glass	Shipping Weight
8x10 inches	2-4 x 3-10	\$1.34	16 pc. mds
9x12 inches	2-7 x 4-6	1.59	20 pounds
10x12 inches	2-10 x 4-6	1.66	22 pounds

Shipped Promptly from Philadelphia, Pa. See Page 2 for Low Freight Rates.

## ATTRACTIVE COTTAGE WINDOWS

A cottage window decidedly attractive in appearance—one that will harmonize well with any style home. Large windows are not only attractive but provide the maximum amount of light, especially where there is only one window can be used.

These Windows are made of clear Western Pondsosa Pine 1 3/8 inches thick. Carefully glazed with clear glass.

Cottage Windows require the same type of frame as any other window. See Pages 76 and 77 for complete line of window frames. Order frame with same opening size as listed below for window. Shipping weights 47, 50, 60 and 65 lbs.

Shipped Promptly from Philadelphia, Pa. Wards Budget Plan on Page 3.

Size of Opening Width   Height Ft. In.   Ft. In.	Bottom Glass	Top Glass	Hudson 274 HB 540
3-8 x 5-0	40x40	40x14	\$3.95
3-8 x 5-2	40x40	40x16	4.00
4-0 x 5-2	44x40	44x16	5.60
4-0 x 5-6	44x44	44x16	6.15



Hudson

For Low Freight Rates—See Page 2

## SASH WEIGHTS

To hang a window, four sash weights are needed, each weighing 1/4 the entire weight of the window. The 3 to 7 1/2-lb. weights are 1 1/2 inches diameter; 8 to 16 lbs., 1 3/4 inches. Made of cast iron. Shipping weights: 3 lbs., 3 lbs. 8 oz., 4 lbs., 4 lbs. 8 oz., 5 lbs., 6 lbs., 6 lbs., 7 lbs., 7 lbs., 8 lbs., 8 lbs., 9 lbs., 9 lbs., 10 lbs., 11 lbs., 12 lbs., 14 lbs., 16 lbs.

274 HB 950—Per pound.....2 1/2c

Buy on Wards Budget Plan—See Page 3



# SASH FOR EVERY PURPOSE and all at a SAVING

Why Not Compare Our Low Prices and Actually See for Yourself!

## Pondosa Pine BARN and DAIRY SASH



274 HB 550

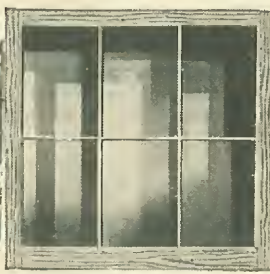
You can always judge the quality of Barn and Dairy Sash by its construction. Wards rank with the best because all are finest grade Clear Pondosa Pine, smoothly sanded, ready to paint. Strong and rigid because all members are mortised and tenon joined and pinned. Glazed with good-quality clear glass, held securely with good linseed oil putty. All sash 1 3/8 in. thick, except 274HB552 which is 1 1/8 in. thick.



274 HB 552



274 HB 551



274 HB 553

Once a user of Wards Barn and Dairy Sash—always a user! For here's the best grade obtainable—the most service you can buy at the lowest cost.

Our sash are shipped direct to you from the mill—all the usual in-between profits are eliminated. Just another economy that puts money in your pockets when you buy by mail.

Article Number	Number of Lights	Size Glass In.	Size Opening		Ship. Wt. Lbs.	Each
			Width Ft., In.	Height Ft., In.		
274 HB 550	9	9x12	2-7	by 3-5	18	\$1.30
274 HB 551	6	9x12	2-7	by 2-5	12	98c
274 HB 553	6	8x14	1-8 1/4	by 3-11 1/2	13	\$1.25
274 HB 552	4	8x10	1-8	by 2-1	10	57c
274 HB 552	4	9x12	1-10	by 2-5	12	65c
274 HB 552	4	10x12	2-0	by 2-5	12	68c
274 HB 552	4	12x14	2-4	by 2-9	13	92c

Shipped Promptly from Philadelphia, Pa. For Low Freight Rates See Page 3.

## ATTIC SASH

Pondosa Pine—1 3/8 Inches Thick



56c

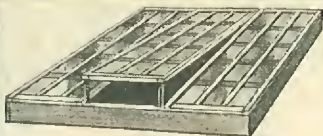
For Opening  
1-8 by 2-1

Sash is strongly constructed with mortised and tenoned joints to assure a sturdy, durable sash. Glazed with good quality clear glass firmly held with zinc glazier's points and high-grade putty. Both sides of the sash are smoothly sanded—ready to paint, stain or varnish.

Shipped from Philadelphia, Pa.

Size of Glass	Size of Opening Width Height Ft. In. Ft. In.	274 HB 513 Clear Glass	Ship. Wt. Lbs.
16x20	1-8x2-1	56c	8
18x20	1-10x2-1	63c	9
18x24	1-10x2-5	70c	10
20x16	2-0x1-9	60c	8
20x18	2-0x1-11	63c	9
20x20	2-0x2-1	64c	10
20x24	2-0x2-5	70c	11
24x16	2-4x1-9	65c	8
24x18	2-4x1-11	69c	9
24x20	2-4x2-1	70c	10
24x24	2-4x2-5	79c	12
24x28	2-4x2-9	88c	14
24x30	2-4x2-11	94c	15

## HOT BED SASH



### Pondosa Pine Frame with Clear Glass Sturdy Construction

Protects plants from frost and maintains a steady, rapid growth without the setbacks of cool weather.

Frame of strong Pondosa Pine 1 3/8 in. thick. Mortise and tenon construction. Glazed with clear glass held by zinc glazier's points and good putty.

274 HB 548—Sizes 3 ft. by 6 ft. Ship. wt. each, 45 pounds. **\$3.15** Lots of five or more. Each. **\$3.30** Lots of less than five. Each. **\$3.30**

All sash shipped from mill in Philadelphia, Pa.

## COLONIAL SHUTTERS



### Dress Up Your Windows and You Dress Up Your Home!

In scarcely any other way can so few dollars add so much permanent beauty! Wards Colonial shutters are made of fine Clear Pondosa Pine and will last for many years. They are full 1 3/8 inches thick. Furnished smoothly sanded ready to paint. Give us the opening size of your window frame—width first. Shutters are made 1-inch longer than standard frame sizes so they can be cut to fit perfectly. Shipped from Factory in Philadelphia, Pa.

Glass Size Inches	Outside Measure Ft. In. Ft. In.	Ship. Wt. Lbs.	274 HB 534 Each
20x20	2-0x3-11	13	\$5.30
20x24	2-0x4-7	15	5.90
20x28	2-0x5-3	17	6.75
22x24	2-2x4-7	16	5.90
22x26	2-2x4-11	17	6.30
22x28	2-2x5-3	18	6.75
24x20	2-4x3-11	14	5.30
24x24	2-4x4-7	16	5.90
24x26	2-4x4-11	17	6.30
24x28	2-4x5-3	18	6.75
24x30	2-4x5-7	19	7.10
24x32	2-4x5-11	20	7.50
26x20	2-6x3-11	15	5.30
26x24	2-6x4-7	17	5.90
26x26	2-6x4-11	18	6.30
26x28	2-6x5-3	19	6.75
26x30	2-6x5-7	20	7.10
28x24	2-8x4-7	19	5.90
28x26	2-8x4-11	19	6.30
28x28	2-8x5-3	21	6.75
30x26	2-10x4-11	21	6.30
30x28	2-10x5-3	22	6.75
30x30	2-10x5-7	23	7.10
36x26	3-4x4-11	24	8.35
36x28	3-4x5-3	25	8.75

## TRANSOM SASH

52c

2-6 by 1 ft.



Pondosa Pine 1 3/8 in. thick with 2-in. rails. Smoothly sanded, ready to paint. Good quality, clear glass.

Width	Height	274 HB 515	Ship. wt.
2 ft. 6 in.	1 ft.	52c	5 lbs.
2 ft. 8 in.	1 ft.	55c	6 lbs.
3 ft.	1 ft. 4 in.	72c	8 lbs.

Shipped from Philadelphia, Pa.

## HALL SASH

Made of clear Pondosa Pine 1 3/8 inches thick, with 3-inch bottom rail. Outside measurement of both designs 3 feet 4 inches by 1 foot 11 inches. Glazed with clear glass.

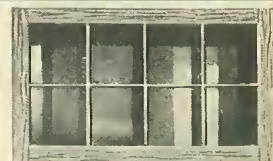
### Plymouth Style

274 HB 507—Shipping weight 13 pounds. **\$1.65** Each.

### Pilgrim Style

274 HB 509—Shipping weight 13 pounds. **\$1.48** Each.

Shipped from Philadelphia, Pa.

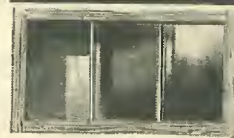


274 HB 507

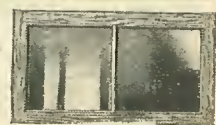


274 HB 509

## 2 and 3-light CELLAR SASH



274 HB 517



274 HB 516

### Clear Pondosa Pine—1 3/8-In. Thick 274 HB 517—3-light sash

Size of Glass	Size of Opening Width Height Ft. In. Ft. In.	Glazed Single Strength	Shipping Weight
8x10	2-4 by 1-3	54c	10 lbs.
10x12	2-10 by 1-3	64c	14 lbs.
10x14	2-10 by 1-7	69c	14 lbs.
10x16	2-10 by 1-9	76c	15 lbs.

### 274 HB 516—2-light cellar sash

Size of Glass	Size of Opening Width Height Ft. In. Ft. In.	Glazed Single Strength	Shipping Weight
10x12	2-1 by 1-5	56c	11 lbs.
12x14	2-5 by 1-7	65c	12 lbs.
12x16	2-5 by 1-9	68c	12 lbs.
14x16	2-9 by 1-9	74c	13 lbs.

Shipped from mill in Philadelphia, Pa.



# WINDOW GLASS

## SINGLE AND DOUBLE STRENGTH Safe and Prompt Shipment Guaranteed

The Standards of Quality set by Wards are very exacting. Only a manufacturer with long experience and expert facilities can measure up to them. We have selected some of the largest glass makers in America to make our glass. Our quality must be the best. That's why you can depend on Wards glass to be always clear and flawless.

Compare our low prices. See how much you save.

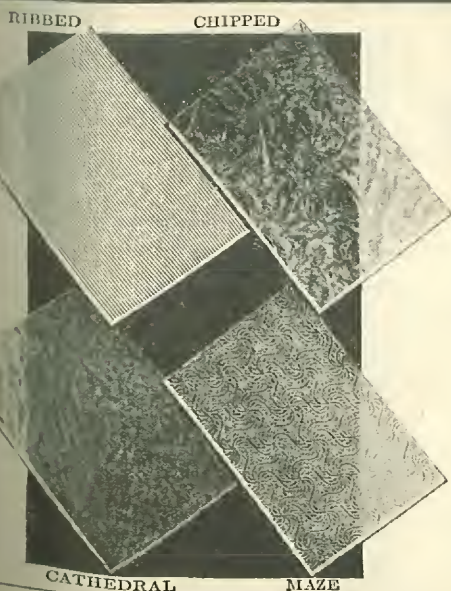
**Safe Delivery Guaranteed.** Even though skilled glass packers pack each shipment, it is always advisable to shake the box slightly when you get it at your freight office. If there is any sound to indicate that it has been broken in transit, open it in the presence of the station agent and note on the freight bill the number of lights broken. Be sure to mark the breakage on the freight bill. *We will then refund your money for any breakage or replace the glass.*

When ordering size not listed use the price of the next largest size, and be sure to specify width wanted. On orders for glass amounting to less than \$2.00, add 50c extra for boxing. The terms S.S. and D.S. mean single strength and double strength glass. Single strength glass runs in thickness from 12 to 15 lights to an inch, and the average weight per box is 70 pounds; double strength from 8 to 10 lights to an inch, and the average weight per box is 75 pounds. *Shipped promptly from Philadelphia, Pa. See Page 2 for Low Freight Rates.*



Size of Each Glass	PER LIGHT Article Number		No. of Lights in Box	PER BOX Article Number	
	274 HB 574 S.S. Per Light	274 HB 575 D.S. Per Light		274 HB 576 S.S. Per Box	274 HB 577 D.S. Per Box
8x10	5c	7c	90	\$3.80	\$5.15
8x12	6c	8c	75	3.80	5.15
8x14	7c	9c	64	3.80	5.15
8x18	7c	10c	50	3.80	5.15
9x12	7c	9c	67	3.80	5.15
9x14	8c	11c	57	3.80	5.15
9x18	8c	11c	44	3.80	5.15
10x12	8c	10c	60	3.80	5.15
10x14	9c	12c	51	3.80	5.15
10x16	10c	13c	45	4.00	5.60
10x18	12c	16c	40	4.00	5.60
10x20	13c	18c	36	4.00	5.60
10x24	15c	22c	30	4.00	5.60
10x28	19c	28c	26	4.15	5.95
12x14	11c	16c	43	4.00	5.60
12x16	12c	18c	38	4.00	5.60
12x18	14c	20c	33	4.00	5.60
12x20	15c	22c	30	4.00	5.60
12x24	20c	29c	25	4.15	5.95
12x26	22c	31c	23	4.15	5.95
12x28	24c	35c	21	4.15	5.95
12x30	28c	41c	20	4.60	6.80
12x32	30c	43c	19	4.60	6.80
12x36	33c	48c	17	4.60	6.80
14x16	15c	21c	32	4.00	5.60
14x18	16c	23c	29	4.00	5.60
Size of Each Glass	PER LIGHT Article Number		No. of Lights in Box	PER BOX Article Number	
	274 HB 574 S.S. Per Light	274 HB 575 D.S. Per Light		274 HB 576 S.S. Per Box	274 HB 577 D.S. Per Box
14x20	18c	26c	26	\$4.00	\$5.60
14x22	20c	29c	23	4.15	5.95
14x24	23c	34c	21	4.15	5.95
14x26	25c	36c	20	4.15	5.95
14x28	31c	45c	18	4.60	6.80
14x32	35c	51c	16	4.60	6.80
14x40	44c	65c	13	4.65	6.95
14x44	49c	70c	12	4.70	7.10
16x20	22c	32c	23	4.15	5.95
16x24	26c	38c	19	4.15	5.95
16x28	35c	51c	16	4.60	6.80
16x32	40c	58c	14	4.60	6.80
16x40	55c	85c	11	4.60	7.10
18x20	25c	45c	20	4.15	5.95
18x24	33c	48c	17	4.60	6.80
18x28	40c	58c	14	4.60	6.80
18x32	43c	63c	13	4.60	6.80
18x36	52c	76c	11	4.65	6.95
20x20	31c	45c	18	4.60	6.80
20x22	35c	57c	16	4.60	6.80
20x24	37c	55c	15	4.60	6.80
20x25	43c	58c	14	4.60	6.80
20x28	43c	63c	13	4.60	6.80
20x34	52c	76c	11	4.60	6.95
20x40	60c	87c	9	4.85	7.15
Size of Each Glass	PER LIGHT Article Number		No. of Lights in Box	PER BOX Article Number	
	274 HB 574 S.S. Per Light	274 HB 575 D.S. Per Light		274 HB 576 S.S. Per Box	274 HB 577 D.S. Per Box
22x24	40c	58c	14	\$4.60	\$6.80
22x26	42c	63c	13	4.60	6.80
22x28	46c	68c	12	4.60	6.80
22x32	57c	84c	10	4.65	6.95
24x24	46c	68c	12	4.60	6.80
24x26	47c	69c	12	4.60	6.80
24x28	58c	76c	11	4.65	6.95
24x30	59c	84c	10	4.65	6.95
24x34	70c	87c	9	4.70	7.00
26x26	57c	76c	11	4.65	6.95
25x28	60c	85c	10	4.80	7.00
26x30	67c	95c	9	4.80	7.00
26x32	70c	\$1.00	9	4.80	7.00
26x34	89c	1.15	8	5.60	7.50
28x28	67c	95c	9	4.80	7.00
28x30	72c	1.00	9	4.80	7.00
28x32	82c	1.15	8	5.20	7.50
30x30	83c	1.15	8	5.20	7.50
30x32	84c	1.17	8	5.20	7.50
30x40	\$1.10	1.64	6	5.20	7.50
40x40	.....	1.98	5	.....	8.10
40x44	.....	2.55	4	.....	8.30
42x48	.....	3.03	4	.....	10.25
44x45	.....	3.05	4	.....	10.25
45x48	.....	4.15	3	.....	10.40

## GLASS FOR BATHROOM WINDOWS



### Many Attractive Patterns at Unusually Low Prices

Beautiful semi-transparent glass, suitable for office doors, transom windows, church windows, bathroom windows, etc. Furnished in widths of 30 inches or less and lengths up to 6 feet. *State width first when ordering.* On order for less than \$2.00, add 50c for boxing. Average ship. wt. per sq. ft. 2 lbs. *Shipped from Philadelphia, Pa.*

#### Maze Glass

274 HB 581—Double Strength. Per square foot....45c

#### Ribbed Glass

274 HB 582—1/16-inch. Per square foot.....25c

274 HB 583—1/16-inch. Per square foot.....42c

274 HB 584—Ribbed Wire Glass, 1/4-inch. Per sq. ft.....50c

#### Chipped Glass

274 HB 578—Double Strength. Per square foot....55c

#### Ground Glass

274 HB 579—Double Strength. Per square foot....50c

#### Cathedral Glass

274 HB 585—Wine. Per square foot.....52c

274 HB 586—Olive. Per square foot.....52c

274 HB 587—Green. Per square foot.....52c

274 HB 588—Light blue. Per square foot.....52c

274 HB 589—Amber. Per square foot.....52c

## Leaded Crystal Glass

### First Quality Materials at New Low Prices

There is a very pleasing decorative feature in these attractive but simple patterns. The designs harmonize well with any style of interior decoration. The joints are neatly made and well soldered. Bars are of lead but you can have coppered bars, at an additional cost of 30 cents per square foot. The minimum charge for leaded crystal in sizes less than 3 square feet is equal to the cost of a piece containing 3 square feet.

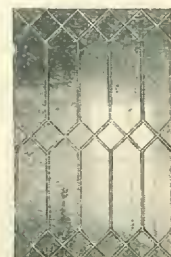
*When ordering give width of glass opening first and height last. Leaded glass made special. Allow 8 to 10 days for manufacturing. Ship. wt. per square foot, 3 lbs. Shipped from Philadelphia, Pa.*

274 HB 595—Per square foot.....\$1.25

274 HB 596—Per square foot..... 1.25



274 HB 595



274 HB 596



# DOOR FRAMES and JAMBS . . . perfect fitting . . . long-lasting . . . smoothly sanded . . . ready for painting.

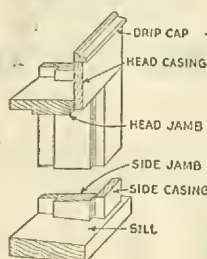
WHEN you build . . . build for permanence. You can do it economically if you select Wards long lasting Door Frames and Jambs—they resist the ravages of time and weather. Sanded to a smooth finish they provide a perfect base for painting or varnishing. Naturally you want Frames and Jambs that are *made right!* Those you select from Wards are carefully cut from perfect patterns. *They must fit!*



THERE is two-fold economy in buying at Wards. First, because the lasting qualities of the Pondosa Pine and the careful way in which our Door Frames are made insure long, dependable service. Second, because Wards sell to you by mail at money-saving prices and ship to you direct-from-the-mill with all in-between profits eliminated.

IMPORTANT—If you want a smaller size Door Frame than is listed, you can easily cut any size to desired width and height. If you prefer to have it done at the mill, Frames will be cut smaller at an extra charge of 50c each. Frames are rabbeted for 1½ in. doors unless otherwise specified. If desired, we will rabbet them for 1¾ in. doors, at no extra charge.

## PLAIN CAP DOOR FRAMES



### Frames With 1½-inch Outside Casing

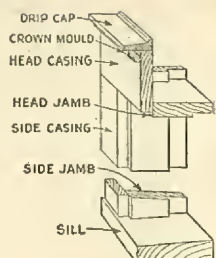
These frames are for standard 2 by 4 stud wall construction. Head and side jambs are 1½ by 5¼ inches and rabbeted ½ by 1½ inches to fit 1¾ inch doors. Sill is 1½ by 7¼ inches. Head and side casings are 1½ by 4½ inches. Drip cap is 1½ by 1½ inches. Sizes listed are carried in stock. Shipped knocked down. For intermediate sizes order next larger size, and cut to fit. For Inside Trim, see opposite page. All pieces, including sill, are clear Pondosa Pine. Oak sills, 90c extra. Average ship. wt. each, 45 lbs. *Shipped promptly from Philadelphia, Pa.*

274 HB 609—State Size Wanted

Size of door—2 ft. 6 in. by 6 ft. 6 in.	\$3.10
Size of door—2 ft. 8 in. by 6 ft. 8 in.	3.25
Size of door—3 ft. by 6 ft. 8 in.	3.30
Size of door—3 ft. by 7 ft.	3.40

If plain cap frames with ¾ inch outside casings are wanted, deduct 25c from the price of desired size listed above and order under Article Number 274 HB 608.

## CROWN MOULD CAP DOOR FRAMES



### Frames With 1½-inch Outside Casing

These frames are for standard 2 by 4 stud wall construction. Head and side jambs are 1½ by 5¼ inches and rabbeted ½ by 1½ inches to fit 1¾ inch doors. Drip cap is 1½ by 2½ inches. Crown moulding is ¾ by 2 inches. Head and side casings are 1½ by 5¼ inches.

Sizes listed carried in stock. For smaller or intermediate sizes order next larger size and cut down to fit. All pieces including sill are clear Pondosa Pine, Oak sill, 90c extra. See page 75 for Inside Trim. Average ship. wt. each, 50 lbs. *Shipped promptly from Philadelphia, Pa.*

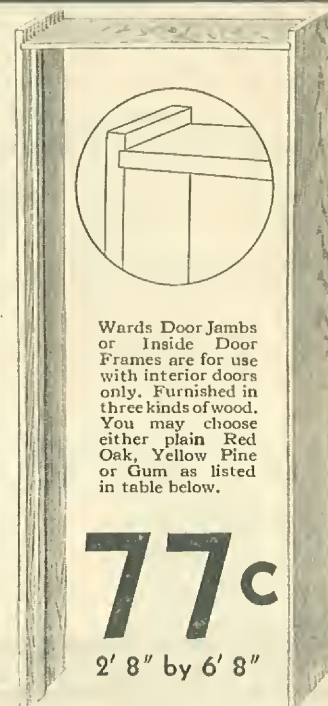
274 HB 611—State Size Wanted

Size of door—2 ft. 6 in. by 6 ft. 6 in.	\$3.35
Size of door—2 ft. 8 in. by 6 ft. 8 in.	3.50
Size of door—3 ft. by 6 ft. 8 in.	3.55
Size of door—3 ft. by 7 ft.	3.65

### Frames for Stucco Walls

For 5¼ inch stucco walls, order frame 274 HB 609 listed under Plain Cap Door Frames and specify with beveled casing. Add 30c to the price quoted for desired size.

## FRAMES or JAMBS FOR INSIDE USE



Wards Door Jambs or Inside Door Frames are for use with interior doors only. Furnished in three kinds of wood. You may choose either plain Red Oak, Yellow Pine or Gum as listed in table below.

**77c**  
2' 8" by 6' 8"

Jambs are ¾ inches thick by 5½ inches wide with side jambs dadoed for head. Prices quoted below do not include stops. If stops are wanted, add 25c to prices quoted below.

These jambs are shipped knocked down but are all ready to set up. They are accurately cut so they fit perfectly—you can set them up quickly and easily. We quote four standard sizes which we carry in stock and ship promptly the day your order is received. If the size you require is not listed, order next larger size and cut down to the required size. If you desire, we will cut jambs to desired size at the mill for 35c per set extra.

Average shipping weight each, 20 lbs. *Shipped promptly from Philadelphia, Pa.*  
State size wanted when ordering.

### 274 HB 601—Yellow Pine

Size of door 2 ft. 8 in. by 6 ft. 8 in.	77c
Size of door 3 ft. by 7 ft.	80c
Size of door 6 ft. by 7 ft.	95c
Size of door 10 ft. by 8 ft.	\$1.20

### 274 HB 600—Gum

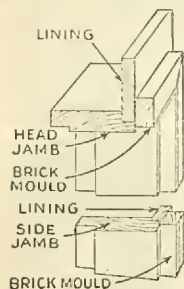
Size of door 2 ft. 8 in. by 6 ft. 8 in.	\$1.45
Size of door 3 ft. by 7 ft.	1.50
Size of door 6 ft. by 7 ft.	2.00
Size of door 10 ft. by 8 ft.	2.50

### 274 HB 603—Plain Red Oak

Size of door 2 ft. 8 in. by 6 ft. 8 in.	\$2.05
Size of door 3 ft. by 7 ft.	2.15
Size of door 6 ft. by 7 ft.	2.75
Size of door 10 ft. by 8 ft.	3.50

## BRICK VENEER DOOR FRAMES

### For Walls 5¼ Inches Thick



These frames are made for walls with 2 by 4 studding and allow for a ¾ in. air space between sheathing and brick. Head and side lining is ¾ by 4½ inches. Head and side jambs are 1½ by 6 inches. Brick moulding is 1½ by 2 inches. No sills included. Side jambs are 1½ inches longer than opening to allow for setting in concrete or trimming to fit.

Sizes listed carried in stock. For smaller or intermediate sizes order next larger size and cut down to fit. Frames are rabbeted for 1¾ inch doors. Frames will be rabbeted for 1¾ inch doors at no extra charge. Shipped knocked down. *Specify size rabbet wanted.* Average shipping weight each 46 pounds. *Shipped*

from Philadelphia, Pa.

274 HB 612—State Size Wanted

Size of door 2 ft. 6 in. by 6 ft. 6 in.	\$2.90
Size of door 2 ft. 8 in. by 6 ft. 8 in.	2.98
Size of door 3 ft. by 6 ft. 8 in.	3.05
Size of door 3 ft. by 7 ft.	3.12

## PLANK DOOR FRAMES

### For Solid Masonry Walls 9 Inches Thick

These frames are for solid brick, stone or concrete walls 9 inches thick. Head and side jambs are 1½ by 5¼ inches and rabbeted ½ by 1½ inches to fit 1¾ inch doors. Brick moulding is 1½ by 2 inches with beaded edge. Furnished with side jambs 1½ in. longer than size specified to allow for setting in concrete or for trimming. Average ship. wt. each, 45 lbs. *Shipped promptly from Chicago or Eastern Iowa.*

274 HB 606—State Size. Size of door 2-6 by 6-6. . . \$2.75

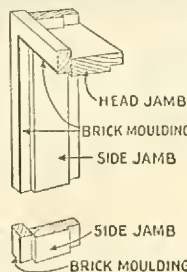
Size of door 2-8 by 6-8. . .	2.80
Size of door 3-0 by 6-8. . .	2.95
Size of door 3-0 by 7-0. . .	3.02

### For Solid Masonry Walls 13 Inches Thick

274 HB 607—State Size.

Same as above but with jambs 9¼ inches wide.

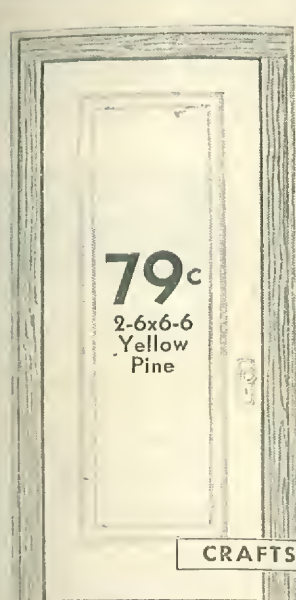
Size of door 2 ft. 6 in. by 6 ft. 6 in.	\$4.60
Size of door 2 ft. 8 in. by 6 ft. 8 in.	4.70
Size of door 3 ft. by 6 ft. 8 in.	4.90
Size of door 3 ft. by 7 ft.	5.10





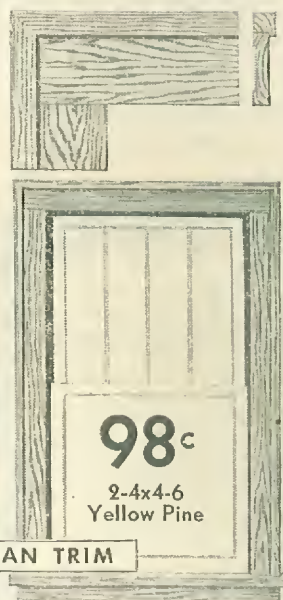
# BUY DOOR and WINDOW TRIM COMPLETE

## It's More Convenient—You Save Time and Money!



**79<sup>c</sup>**

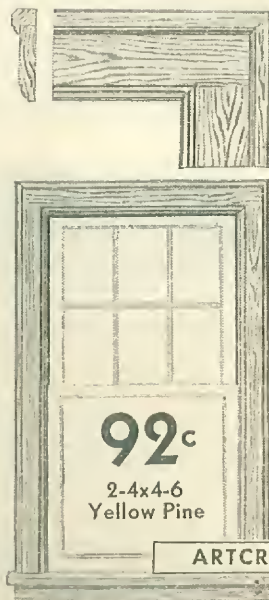
2-6x6-6  
Yellow  
Pine



**98<sup>c</sup>**

2-4x4-6  
Yellow Pine

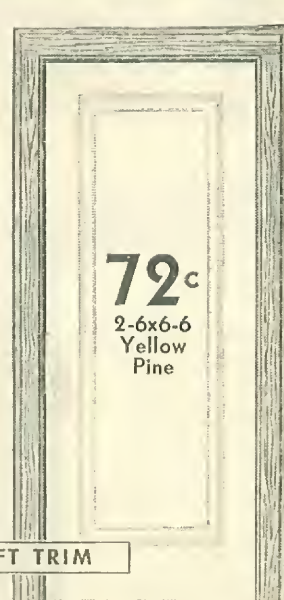
**CRAFTSMAN TRIM**



**92<sup>c</sup>**

2-4x4-6  
Yellow Pine

**ARTCRAFT TRIM**



**72<sup>c</sup>**

2-6x6-6  
Yellow  
Pine

See Low  
Freight  
Rates on  
Page 2

### Craftsman Door Trim

A neat distinctive design, giving grace and dignity to the doorway. Set consists of 2 Side casings,  $\frac{3}{4}$  by  $3\frac{1}{2}$  in.; Head casing,  $\frac{3}{4}$  by  $3\frac{1}{2}$  in.; and Back band,  $\frac{3}{4}$  by  $1\frac{1}{2}$  in. Average shipping weight per set 20 pounds. Shipped from Factory in Philadelphia, Pa.

For Door Opening Size Up to Width   Height Ft. In.   Ft. In.	Price per Side 274 HB 646	
	Yellow Pine	Oak
2-6 by 6-6	79c	\$1.89
2-8 by 6-8	79c	1.89
3-0 by 7-0	85c	1.95
6-0 by 7-0	\$1.00	2.45
8-0 by 8-0	1.15	2.75

### Craftsman Window Trim

Set consists of 2 Side casings, size  $\frac{3}{4}$  by  $3\frac{1}{2}$  inches; Head casing,  $\frac{3}{4}$  by  $3\frac{1}{2}$  in.; Back band,  $\frac{3}{4}$  by  $1\frac{1}{2}$  in.; Stool  $1\frac{1}{2}$  by  $3\frac{1}{2}$  in.; Apron,  $\frac{3}{4}$  by  $3\frac{1}{2}$  in.; Stop,  $\frac{3}{4}$  by  $1\frac{1}{2}$  in. Ship. wt. per set, 20 lbs. Shipped from Philadelphia, Pa.

Any Window Opening Size Up to Width   Height Ft. In.   Ft. In.	Price per Side 274 HB 636	
	Yellow Pine	Oak
2-4 by 4-6	98c	\$2.49
2-4 by 5-2	\$1.10	2.70
2-10 by 5-6	1.10	2.70
3-0 by 6-10	1.25	2.93
3-8 by 6-2	1.40	3.20
4-0 by 6-6	1.50	3.37

### Artcraft Window Trim

Set consists of 2 Side casings  $\frac{1}{2}$  by  $3\frac{1}{4}$  inches; Head Casing  $1\frac{1}{2}$  by  $3\frac{1}{4}$  in.; Back Band  $\frac{3}{4}$  by  $1\frac{1}{2}$  inch; Stool  $1\frac{1}{2}$  by  $3\frac{1}{2}$  in.; Apron  $\frac{1}{2}$  by  $3\frac{1}{4}$  inches; Stop  $\frac{3}{4}$  by  $1\frac{1}{2}$  in. Ship. wt. per set 20 lbs. Shipped from Philadelphia, Pa.

Any Window Opening Size Up to Width   Height Ft. In.   Ft. In.	Price per Side 274 HB 1136		
	Yellow Pine	Gum	Oak
2-4 by 4-6	92c	\$1.85	\$2.37
2-4 by 5-2	\$1.02	1.95	2.57
2-10 by 5-6	1.02	1.95	2.57
3-0 by 5-10	1.15	2.05	2.79
3-8 by 6-2	1.30	2.20	3.04
4-0 by 6-6	1.40	2.30	3.21

### Artcraft Door Trim

New—modern—will harmonize with any type of home. Set consists of 2 Side casings  $\frac{1}{2}$  by  $3\frac{1}{4}$  inches; Head casing,  $\frac{1}{2}$  by  $3\frac{1}{4}$  inches; and Backband,  $\frac{3}{4}$  by  $1\frac{1}{2}$  inches. Average shipping weight per set 20 pounds. Shipped from Factory in Philadelphia, Pa.

For Door Opening Size Up to Width   Height Ft. In.   Ft. In.	Price per Side 274 HB 1134		
	Yellow Pine	Gum	Oak
2-6 by 6-6	72c	\$1.60	\$2.05
2-8 by 6-8	72c	1.60	2.05
3-0 by 7-0	72c	1.70	2.05
6-0 by 7-0	92c	1.85	2.50
8-0 by 8-0	\$1.02	2.10	2.69

### Highest Quality - Lowest Prices

Wards Door and Window Trim is made of the finest clear grade Oak, Yellow Pine or Gum Woods. Every piece of wood is carefully selected for beauty of grain . . . then it's thoroughly seasoned and kiln-dried . . . manufactured on high speed machinery . . . all flat surfaces smoothly sanded. All three woods are ideal for stain and varnish. For enamel, use either Gum or Yellow Pine.

Because all these styles are manufactured in huge quantities and carried in stock, we can sell you this high quality Trim for much less than others usually ask. The quality should not be judged by our low price . . . Wards Door and Window Trim is all carefully made in modern factories by skilled workmen.

Trim parts are furnished about  $\frac{1}{2}$  inch longer than required to allow for perfect fitting.

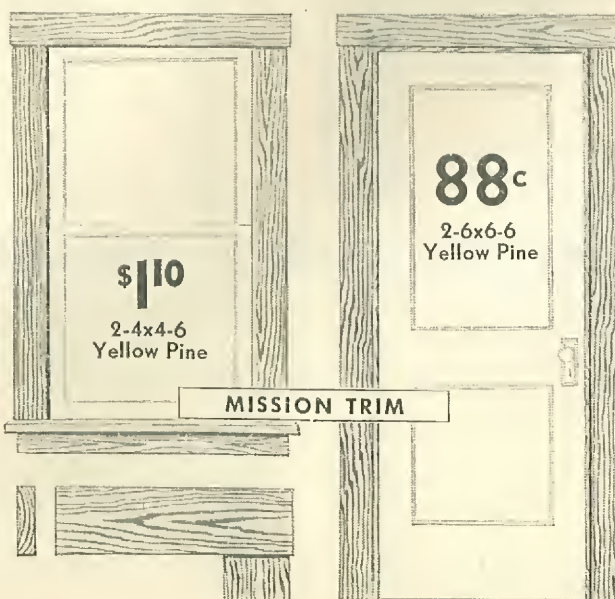
### Mission Window Trim

(Pictured at Right) →

Set consists of Side casing, size  $\frac{3}{4}$  by  $4\frac{1}{4}$  inches; Head casing,  $1\frac{1}{4}$  by  $5\frac{1}{2}$  in.; Stool,  $1\frac{1}{4}$  by  $3\frac{1}{2}$  in.; Apron,  $\frac{3}{4}$  by  $3\frac{1}{2}$  in.; Stop,  $\frac{3}{4}$  by  $1\frac{1}{2}$  in. Ship. weight per set 20 lbs. Shipped from Factory in Philadelphia, Pa.

Any Window Opening Size Up to Width   Height Ft. In.   Ft. In.	Price per Side 274 HB 635	
	Yellow Pine	Oak
2-4 by 4-6	\$1.10	\$2.60
2-4 by 5-2	1.25	2.80
2-10 by 5-6	1.25	2.80
3-0 by 5-10	1.35	2.96
3-8 by 6-2	1.45	3.40
4-0 by 6-6	1.65	3.55

For Door and Window Trim or Mouldings  
Sold by the Lineal Foot See Pages  
78 and 79



**\$1.10**

2-4x4-6  
Yellow Pine

**MISSION TRIM**

### Read Carefully Before Ordering

All Trim is shipped direct from mills . . . you save extra handling costs. For sizes not listed, simply order the next larger size and cut down.

Each outside door needs one side of trim—inside doors need two sides. You need only one side of inside trim for each window. For twin windows, figure double the price of a single set of trim; for triple windows, figure three times the price of a single set. Tell us if you are ordering for twin or triple windows, so we can include mullion Casing. Trim includes all parts specified, carefully bundled.

When you order your Trim from Wards you save all the complicated measuring and figuring usually connected with installing door or window trim. All pieces are well machined to fit and match perfectly . . . simply trim to fit your special requirements.

For a complete line of Paints and Varnishes, see Wards General Catalog. Freight is fast and economical. See Rates on Page 2.

### Mission Door Trim

← (Pictured at left)

A simple good-looking Trim that lends dignity. A set consists of Side Casing,  $\frac{3}{4}$  by  $4\frac{1}{4}$  inches; Head casing,  $1\frac{1}{4}$  by  $5\frac{1}{2}$  inches; Base blocks,  $1\frac{1}{4}$  by  $4\frac{1}{4}$  by 11 inches. Average shipping weight per set 20 pounds. Shipped from Factory in Philadelphia, Pa.

For Door Opening Size Up to Width   Height Ft. In.   Ft. In.	Price per Side Price includes Base Blocks 274 HB 645	
	Yellow Pine	Oak
2-6 by 6-6	88c	\$2.35
2-8 by 6-8	88c	2.35
3-0 by 7-0	\$1.00	2.53
6-0 by 7-0	1.16	2.88
8-0 by 8-0	1.50	3.15

Use Wards Budget Plan of  
Monthly Payments. See Page 3



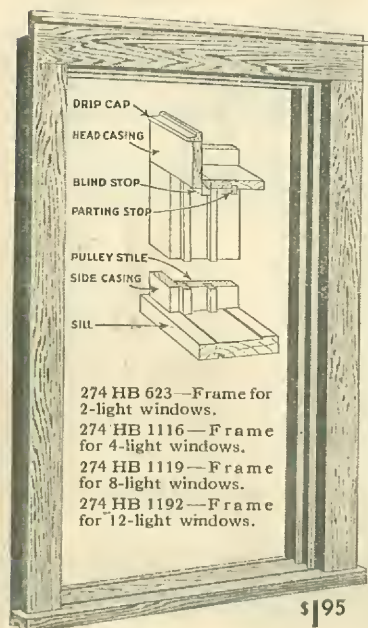
# Name any size, any style WINDOW



## Made With the Latest Type Jam-Proof Pulleys

Even at Wards unusually low price you get this modern rust-proof type of pulley in every window frame. It's jam-proof—the sash-cord always rides squarely on the pulley—your windows always raise easily with the full benefit of the counter-balancing sash weights. Its closed construction makes it free of drafts and dirt as well as unbreakable.

The Pulley Stiles have pockets cut in for sash weights and are grooved to receive the sill at an angle so that water will run off.



274 HB 623—Frame for 2-light windows.  
274 HB 1116—Frame for 4-light windows.  
274 HB 1119—Frame for 8-light windows.  
274 HB 1192—Frame for 12-light windows.

\$195

## PLAIN CAP FRAMES

Use this type frame if your home is of 2x4 studding construction with 5/4 inch walls. Outside head and side casings of frame are 1 1/8 inches thick and will take Wards standard 1 1/8 inch Screens and Storm Sash.

Pulley Stiles and Head Jambs are 3/4 by 5 1/4 inches and include the Blind Stop. Both pulley stiles and head jamb are plowed and fitted with parting stops. Sill is 1 3/4 by 7/4 inches with groove in bottom for siding. Drip Cap is 1 1/8 by 1 5/8 inches.

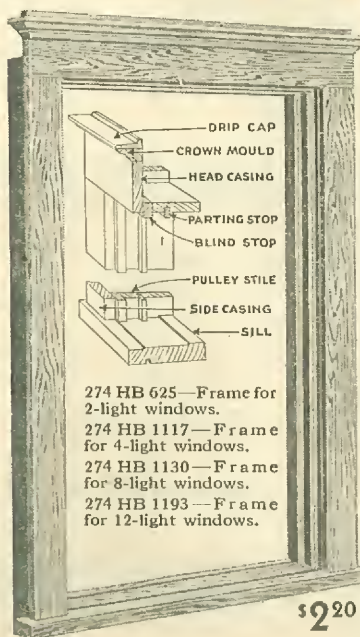
See sketch at the left for details of construction and various members of window frame. Shipped from mill in Philadelphia, Pa.

**Note:** If 3/4-inch outside casings are wanted, deduct 30c from the price of desired size listed under 1 1/8 inch casing and order frames under number 274 HB 622.

All frames pictured on Pages 76 and 77 are furnished for 2, 4, 8 and 12 light windows in sizes indicated.

## ... YOU GET QUICK SERVICE

Sixteen different types of Window Frames... as many as sixty sizes of each... frames all packed and ready for shipment the minute your order is received. Wards give you the fastest service from the largest and most complete stock carried anywhere. Just think what an advantage that is, when you get such big savings too! Careful workmanship and approved construction assure you the best of quality. Selected clear Pondosa Pine assures you long, satisfactory service.



## MOULDED CAP FRAMES

Use for frame buildings with 2x4 studding and walls 5/4 inches thick. All specifications are same as Plain Cap Frame at left, except for the Cap construction: the drip cap is larger and has a crown moulding under it. See sketch at left for details of construction. See prices below.

### Frames for Cottage Windows

Order the same as if for 2-light frames of same opening size.

### Frames for 5 1/4" Stucco Walls

Order Plain Cap Frame listed at left and specify, with beveled casings and add 40c extra per frame (or you can easily level this casing yourself when you get it on the job).

### For Frame Sizes Not Listed

If the style and size you want is not listed here, write our Engineering and Information Department and we will promptly quote you a price.

### Use Wards BUDGET PLAN

Buy all your millwork on this convenient plan of Monthly Payments—See Page 3.

\$220

## Prices on PLAIN CAP and MOULDED CAP FRAMES for 2-Light Windows

Size of Glass	Size of Opening Width Height Ft. In. Ft. In.	Plain Cap Frames 274 HB 623	Crown Mould Cap Frames 274 HB 625	Av. Ship. Wt. Lbs.
12x20	1-4 x 3-10	\$1.95	\$2.20	25
14x20	1-6 x 3-10	1.99	2.24	27
14x24	1-6 x 4-6	2.13	2.38	29
14x26	1-6 x 4-10	2.20	2.45	31
14x28	1-6 x 5-2	2.25	2.50	33
16x20	1-8 x 3-10	2.03	2.28	27
16x24	1-8 x 4-6	2.16	2.41	29
16x26	1-8 x 4-10	2.23	2.48	31
16x28	1-8 x 5-2	2.30	2.55	33
18x20	1-10 x 3-10	2.37	2.62	35
18x22	1-10 x 4-2	2.14	2.38	29
18x24	1-10 x 4-6	2.21	2.46	31
18x26	1-10 x 4-10	2.29	2.54	33
18x28	1-10 x 5-2	2.34	2.59	35
18x30	2-0 x 5-6	2.42	2.67	37
20x20	2-0 x 3-10	2.11	2.36	25
20x22	2-0 x 4-2	2.18	2.43	27
20x24	2-0 x 4-6	2.24	2.49	29
20x26	2-0 x 4-10	2.31	2.56	31
20x28	2-0 x 5-2	2.38	2.63	33
20x30	2-0 x 5-6	2.46	2.70	35
22x24	2-2 x 4-6	2.34	2.59	29
22x26	2-2 x 4-10	2.42	2.67	31
22x28	2-2 x 5-2	2.48	2.73	33
22x30	2-2 x 5-6	2.60	2.85	35
24x16	2-4 x 3-2	2.09	2.34	29
24x18	2-4 x 3-6	2.15	2.40	31
24x20	2-4 x 3-10	2.26	2.49	33
24x22	2-4 x 4-2	2.32	2.57	35

Size of Glass	Size of Opening Width Height Ft. In. Ft. In.	Plain Cap Frames 274 HB 623	Crown Mould Cap Frames 274 HB 625	Av. Ship. Wt. Lbs.
24x24	2-4 x 4-6	\$2.39	\$2.64	37
24x26	2-4 x 4-10	2.46	2.71	39
24x28	2-4 x 5-2	2.53	2.78	41
24x30	2-4 x 5-6	2.59	2.84	43
26x14	2-6 x 2-10	1.98	2.23	25
26x24	2-6 x 4-6	2.43	2.68	31
26x26	2-6 x 4-10	2.50	2.75	33
26x28	2-6 x 5-2	2.58	2.83	35
26x30	2-6 x 5-6	2.63	2.88	37
28x24	2-8 x 4-6	2.52	2.79	37
28x26	2-8 x 4-10	2.59	2.89	39
28x28	2-8 x 5-2	2.65	2.93	41
28x30	2-8 x 5-6	2.73	3.00	43
28x32	2-8 x 5-10	2.92	3.19	45
30x24	2-10 x 4-6	2.56	2.81	39
30x26	2-10 x 4-10	2.63	2.93	41
30x28	2-10 x 5-2	2.70	2.98	43
30x30	2-10 x 5-6	2.77	3.06	45
30x32	2-10 x 5-10	2.91	3.25	47
32x24	3-0 x 4-6	2.60	2.85	41
32x28	3-0 x 5-2	2.74	3.02	43
32x30	3-0 x 5-6	2.80	3.08	45
36x20	3-4 x 3-10	2.65	2.90	31
36x24	3-4 x 4-6	2.78	3.04	33
36x26	3-4 x 4-10	2.84	3.13	35
36x28	3-4 x 5-2	2.90	3.19	37
40x28	3-8 x 5-2	2.93	3.22	39
40x30	3-8 x 5-6	2.98	3.27	41
44x28	4-0 x 5-2	3.03	3.33	43
44x30	4-0 x 5-6	3.09	3.37	45

## FRAMES FOR 4-LIGHT WINDOWS

Size of Glass	Size of Opening Width Height Ft. In. Ft. In.	Plain Cap Frame 274 HB 1116	Crown Mould Cap Frame 274 HB 1117	Box Window Frame 274 HB 1131	Brick Veneer Frame 274 HB 1196
10x20	2-1 x 3-10	\$2.30	\$2.55	\$2.45	\$2.40
10x22	2-1 x 4-2	2.36	2.61	2.51	2.46
10x24	2-1 x 4-6	2.43	2.70	2.60	2.55
10x26	2-1 x 4-10	2.49	2.74	2.64	2.59
10x28	2-1 x 5-2	2.58	2.82	2.73	2.68
12x20	2-5 x 3-10	2.44	2.69	2.59	2.54
12x22	2-5 x 4-2	2.49	2.74	2.64	2.59
12x24	2-5 x 4-6	2.59	2.84	2.74	2.69
12x26	2-5 x 4-10	2.65	2.90	2.79	2.75
12x28	2-5 x 5-2	2.73	2.98	2.88	2.83
12x30	2-5 x 5-6	2.80	3.05	2.95	2.90
14x20	2-9 x 3-10	2.57	2.82	2.72	2.67
14x22	2-9 x 4-2	2.65	2.90	2.80	2.75
14x24	2-9 x 4-6	2.68	2.93	2.83	2.78
14x26	2-9 x 4-10	2.80	3.05	2.95	2.90
14x28	2-9 x 5-2	2.87	3.12	3.02	2.97
14x30	2-9 x 5-6	2.95	3.20	3.10	3.05
14x32	2-9 x 5-10	3.12	3.37	3.27	3.22
15x24	2-11 x 4-6	2.75	3.00	2.90	2.85

## FRAMES FOR 8-LIGHT WINDOWS

Frames for four and eight light windows are furnished in the four styles shown above. Plain Cap, Crown Mould Cap, Box and Brick Veneer. When ordering state size of opening and article number.

Size of Glass	Size of Opening Width Height Ft. In. Ft. In.	Plain Cap Frame 274 HB 1119	Crown Mould Cap Frame 274 HB 1130	Box Frame 274 HB 1132	Brick Veneer Frame 274 HB 1197
8x12	1-11 x 4-6	\$2.42	\$2.67	\$2.57	\$2.52
10x12	2-1 x 4-6	2.48	2.73	2.63	2.58
10x14	2-1 x 5-2	2.60	2.85	2.75	2.70
12x14	2-5 x 5-2	2.76	3.01	2.91	2.86
12x16	2-5 x 5-10	2.98	3.23	3.13	3.08

Prices of Mullion or Twin Window Frames are two times the price of single frames of the same size, plus 50c.

Prices of Triple Window Frames are three times the price of single frames of the same size, plus \$1.00.

Prices of Quadruple Window Frames are four times the price of single frames of the same size, plus \$2.75.

All Frames Shipped from Mill in Philadelphia, Pa. Freight is fast and economical. See Low Rates on Page 2.



# FRAME for any type house • we have it

## ... AND YOU SAVE MONEY

QUANTITY production with the latest type of high speed machinery makes it possible for us to produce all our millwork at a very low price. The savings of this low cost production are passed on to you along with the benefits of the precision and accuracy made possible by this modern equipment. Added to Wards economical production are the further economies of selling by mail and shipping direct from the mill to you.

### BOX WINDOW FRAMES

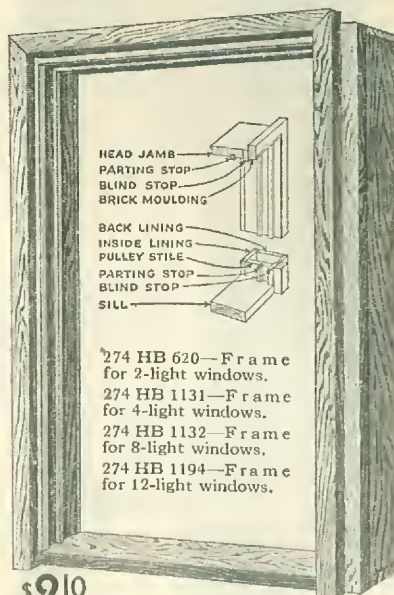
This is the frame to use for Brick, Stone and Concrete buildings. It is for standard 9-inch brick walls but can be used for 13-inch walls because the inside lining is plowed to receive extension jambs.

Brick Mould 1½x2 inches with beaded edge. Blind Stop ¾x4½ inches. Pulley Stile ¾x5½ inches, including blind stop and inside lining. Parting Stop ½x¾ inch. Inside Box Lining ¾x4 inches. Back Box Lining ¾x3¾ inches. Head Jamb 1½x4½ inches, with ¾x1½ inches Blind Stop. Sill 1½x5¼ inches.

Same fine quality and excellent construction as our Plain Cap and Moulded Cap Frames listed on opposite page.

No arch boards or spring pieces are included, but can be furnished for 15c extra per frame. The arch boards can readily be nailed right on top of the head brick moulding.

See instructions above on "How to Order." Buy on Wards BUDGET PLAN—see Page 3 for details.



274 HB 620—Frame for 2-light windows.  
274 HB 1131—Frame for 4-light windows.  
274 HB 1132—Frame for 8-light windows.  
274 HB 1194—Frame for 12-light windows.

\$210  
1-4x3-10

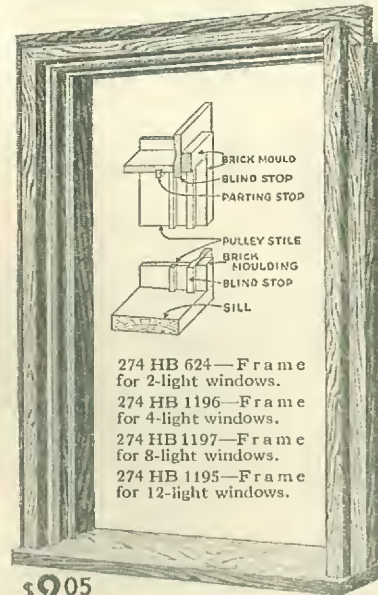
### BRICK VENEER FRAMES

Use this Frame for Brick Veneer buildings with walls 5¼ inches thick, measuring from outside of sheathing to and including plaster. This is the thickness of the average wall with 2x4 studding.

Brick Moulding 1½x2 inches. Blind Stop ¾x4½ inches. Parting Stop ½x¾ inch. Pulley Stile and Head Jamb ¾x5¼ inches. Sill 1½x7¼ inches.

To secure lowest possible freight rates, all of Wards Window Frames shown on Pages 76 and 77 are shipped knocked-down, ready for assembly. All parts are carefully cut and machined so that assembly is easy. Freight Rates are low—see Freight Rates on Page 2.

Shipped from Factory in Philadelphia, Pa.



274 HB 624—Frame for 2-light windows.  
274 HB 1196—Frame for 4-light windows.  
274 HB 1197—Frame for 8-light windows.  
274 HB 1195—Frame for 12-light windows.

\$205  
1-4x3-10

## Prices on BOX WINDOW and BRICK VENEER FRAMES for 2-Light Windows

Size of Glass	Size of Opening Width Ft. In. Height Ft. In.	Box Window Frames 274 HB 620	Brick Veneer Window Frames 274 HB 624	Average Ship. Wt. Lbs.
12x20	1-4 x 3-10	\$2.10	\$2.05	30
14x20	1-6 x 3-10	2.14	2.09	32
14x24	1-6 x 4-6	2.28	2.23	34
14x26	1-6 x 4-10	2.35	2.30	36
14x28	1-6 x 5-2	2.40	2.35	38
16x20	1-8 x 3-10	2.18	2.13	40
16x24	1-8 x 4-6	2.31	2.26	42
16x26	1-8 x 4-10	2.38	2.33	44
16x28	1-8 x 5-2	2.45	2.40	46
16x30	1-8 x 5-6	2.52	2.47	48
18x20	1-10 x 3-10	2.22	2.17	32
18x22	1-10 x 4-2	2.29	2.24	34
18x24	1-10 x 4-6	2.36	2.31	36
18x26	1-10 x 4-10	2.44	2.39	38
18x28	1-10 x 5-2	2.49	2.44	40
18x30	1-10 x 5-6	2.57	2.52	42
20x20	2-0 x 3-10	2.26	2.21	32
20x22	2-0 x 4-2	2.33	2.28	34
20x24	2-0 x 4-6	2.39	2.34	36
20x26	2-0 x 4-10	2.46	2.41	38
20x28	2-0 x 5-2	2.53	2.48	40
20x30	2-0 x 5-6	2.60	2.55	42
22x24	2-0 x 4-6	2.49	2.44	38
22x26	2-2 x 4-10	2.57	2.52	40
22x28	2-2 x 5-2	2.63	2.58	42
22x30	2-2 x 5-6	2.75	2.70	44
24x16	2-4 x 3-2	2.24	2.19	40
24x18	2-4 x 3-6	2.30	2.25	42
24x20	2-4 x 3-10	2.41	2.36	44
24x22	2-4 x 4-2	2.47	2.42	46

Size of Glass	Size of Opening Width Ft. In. Height Ft. In.	Box Window Frames 274 HB 620	Brick Veneer Window Frames 274 HB 624	Average Ship. Wt. Lbs.
24x24	2-4 x 4-6	\$2.54	\$2.49	46
24x26	2-4 x 4-10	2.61	2.56	48
24x28	2-4 x 5-2	2.68	2.63	50
24x30	2-4 x 5-6	2.74	2.69	52
26x14	2-6 x 2-10	2.13	2.08	40
26x24	2-6 x 4-6	2.58	2.53	42
26x26	2-6 x 4-10	2.65	2.60	44
26x28	2-6 x 5-2	2.73	2.68	46
26x30	2-6 x 5-6	2.78	2.73	48
28x24	2-8 x 4-6	2.67	2.62	42
28x26	2-8 x 4-10	2.74	2.69	44
28x28	2-8 x 5-2	2.80	2.75	46
28x30	2-8 x 5-6	2.85	2.80	48
28x32	2-8 x 5-10	2.97	2.92	50
30x24	2-10 x 4-6	2.71	2.66	42
30x26	2-10 x 4-10	2.78	2.73	44
30x28	2-10 x 5-2	2.85	2.80	46
30x30	2-10 x 5-6	2.92	2.87	48
30x32	2-10 x 5-10	3.09	3.04	50
32x24	3-0 x 4-6	2.75	2.70	46
32x28	3-0 x 5-2	2.89	2.84	48
32x30	3-0 x 5-6	2.95	2.90	50
36x20	3-4 x 3-10	2.80	2.75	44
36x24	3-4 x 4-6	2.93	2.88	46
36x26	3-4 x 4-10	2.99	2.94	48
36x28	3-4 x 5-2	3.05	3.00	50
40x28	3-8 x 5-2	3.08	3.03	44
40x30	3-8 x 5-6	3.13	3.08	46
44x28	4-0 x 5-2	3.18	3.13	48
44x30	4-0 x 5-6	3.24	3.19	50

## FRAMES FOR 12-LIGHT WINDOWS

Size of Glass	Size of Opening Width Ft. In. Height Ft. In.	Plain Cap Frame 274 HB 1198	Crown Mould Cap Frame 274 HB 1193
8x10	2-4½ x 3-10	\$2.49	\$2.74
8x12	2-4½ x 4-6	2.63	2.88
9x12	2-7½ x 4-6	2.77	3.02
9x14	2-7½ x 5-2	2.94	3.19
10x12	2-10½ x 4-6	2.80	3.05
10x14	2-10½ x 5-2	2.96	3.21
10x16	2-10½ x 5-10	3.22	3.47

Size of Glass	Size of Opening Width Ft. In. Height Ft. In.	Box Window Frame 274 HB 1194	Brick Veneer Frame 274 HB 1195
8x10	2-4½ x 3-10	\$2.64	\$2.59
8x12	2-4½ x 4-6	2.78	2.73
9x12	2-7½ x 4-6	2.92	2.87
9x14	2-7½ x 5-2	3.09	3.04
10x12	2-10½ x 4-6	2.95	2.90
10x14	2-10½ x 5-2	3.11	3.06
10x16	2-10½ x 5-10	3.37	3.32

## CELLAR SASH FRAMES

Clear Pondosa Pine Frames for stone, concrete or brick wall construction. Brick mould is 1½x2 inches. Jamb is 1½x5¼ inches rabbeted ½x1½ inches for in-swinging sash. Sill is 1½x5¼ inches. Carefully machined ready to paint. Very easy to put together. Average shipping weight each, 20 pounds. Shipped from Mill in Philadelphia, Pa. Freight Rates on Page 2.

Glass Size, In.	Opening Size Ft. In. Ft. In.	274 HB 634 Each
10x12	2-1 x 1-5	\$1.08
12x14	2-5 x 1-7	1.18
12x16	2-5 x 1-9	1.22
14x16	2-9 x 1-9	1.39



Glass Size, In.	Opening Size Ft. In. Ft. In.	274 HB 1133 Each
8x10	2-4 x 1-3	\$1.05
10x12	2-10 x 1-5	1.32
10x14	2-10 x 1-7	1.37
10x16	2-10 x 1-9	1.42

## Wards BUDGET PLAN of Monthly Payments — Page 3



## BASEBOARDS

All prices are per 100 lineal feet in random lengths. For exact lengths add 10 per cent. Order all three members in same wood. Shipped from Mill in Philadelphia, Pa.

### 7 1/4-Inch Base

274 HB 708—Base  
Size 3/4 by 7 1/4 inches. Ship.  
wt. 100 ft. 120 lbs.  
Yellow Pine.....\$6.25  
Oak.....15.95

274 HB 676—Back Band  
Size 1 1/4 by 1 1/4 inches. Ship.  
wt. 100 ft. 26 lbs.  
Yellow Pine.....\$1.75  
Oak.....4.75

274 HB 712—Carpet Strip  
Size 1/2 by 3/4-inch. Ship.  
wt. 100 ft. 10 lbs.  
Yellow Pine.....72c  
Gum.....\$1.40  
Oak.....1.75

Note: For two-member base use Base 274 HB 708 with Carpet Strip 274 HB-712.

### 5 1/4-Inch Base

274 HB 717—Base  
Size 5/8 by 5 1/4 inches. Ship.  
wt. 100 ft. 80 lbs.  
Yellow Pine.....\$4.60  
Gum.....8.85  
Oak.....10.50

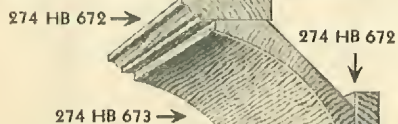
Use Carpet Strip 274 HB 712 (see above).

274 HB 716—Base Moulding  
Size 5/8 by 1 1/4 inches. Ship.  
wt. 100 ft. 25 lbs.  
Yellow Pine.....89c  
Gum.....\$1.90  
Oak.....2.45

### 3 1/2-Inch Base

274 HB 696—Base  
Size 5/8 by 3 1/2 inches. Ship.  
wt. 100 ft. 60 lbs.  
Yellow Pine.....\$2.90  
Oak.....7.95  
Use Base Moulding 274 HB-716 and Carpet Strip 274-HB 712 (see above).

## CEILING CORNICE



A four-piece cornice for the ceiling that gives your rooms a neatly finished effect. Prices are for 100 lineal feet cut in random lengths. Add 10 per cent if exact lengths are desired.

274 HB 672—Ceiling or Side Wall Moulding. 5/8 by 2 1/2 inches. Ship. wt. 100 lineal feet, 25 pounds.  
Yellow Pine, \$2.10. Gum, \$4.70. Oak, \$5.50  
274 HB 673—Cove Moulding or Main Member. 1 1/4 by 5 1/4 inches. Ship. wt. 100 lineal feet, 70 pounds.  
Yellow Pine, \$8.35. Gum, \$13.25. Oak, \$15.95

274 HB 689—Picture Moulding. 5/8 by 1 3/8 inches. Ship. wt. 100 ft. 25 lbs.  
Yellow Pine, \$1.40. Gum, \$3.50. Oak, \$4.00

### Quarter Round Moulding

Per 100 ft.; random lengths. Add 10% for exact lengths. Ship. wt. 13 lbs.

Article Number	Size In.	Yellow Pine	Pondosa Pine	Gum	Oak
274 HB 664	3/4 x 5/8	72c			
274 HB 665	3/4 x 3/4	72c	79c	\$1.75	\$2.00

### Cove or Scotia Moulding

Per 100 ft. in random lengths. Ship. wt. 12 lbs.

Article Number	Size In.	Yellow Pine	Pondosa Pine	Gum	Oak
274 HB 662	3/4 x 7/8	72c	79c	\$1.75	\$2.00
274 HB 663	3/4 x 1 1/8	89c			

# WARDS INTERIOR TRIM and MOULDINGS

## Give Your Home a "Better Finished" Look

All our mouldings are made from first quality, thoroughly kiln-dried, clear lumber carefully selected for beauty of grain and freedom from knots and defects. All flat surfaces are machine sanded to perfect smoothness.

Such first quality mouldings would usually cost you much more. You save at Wards because we handle large quantities and ship direct from the mill to you—eliminating in-between profits and extra handling charges.

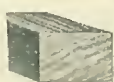
Oak mouldings come in random lengths varying from 6 to 12 feet; other woods in random lengths from 10 to 16 feet.

If exact lengths are desired, add 10 per cent to prices quoted.

All materials on this page Shipped from Philadelphia, Pa.

See Page 2 for Low Freight Rates on Interior Trim.

## WINDOW PARTING STOP



Made of clear Pondosa Pine and cut in random lengths. Size 1 1/2 by 1 3/8 inches. Ship. wt. per 100 lineal feet, 10 lbs.

274 HB 669—Per 100 lineal feet... 79c  
Shipped from Philadelphia, Pa.

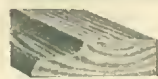
## WINDOW BLIND STOP



Made of clear Pondosa Pine. Size 3/4 by 1 3/8 inches. In random lengths. Ship. wt. per 100 lineal feet, 30 lbs.

274 HB 668—Per 100 lineal feet, \$1.20  
Shipped from Philadelphia, Pa.

## DOOR-WINDOW STOPS



O-G  
Ship. wt. per 100 lineal ft., 15 lbs. Prices are for 100 lineal ft.

Article Number	Size In.	Yellow Pine	Gum	Oak
274 HB 685	3/4 x 1 3/8	79c	\$1.95	\$2.20
274 HB 686	3/4 x 1 5/8	98c	2.45	2.80
274 HB 687	3/4 x 2	\$1.15	2.85	3.20



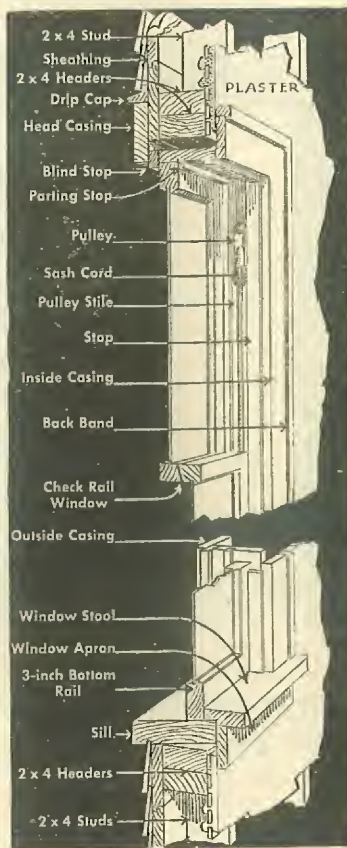
### Round Edge Stops

Ship. wt. per 100 lineal ft., 20 lbs.

Prices are for 100 lineal feet.

Article Number	Size In.	Yellow Pine	Gum	Oak
274 HB 683	3/4 x 1 3/8	79c	\$1.95	\$2.20
274 HB 684	3/4 x 1 5/8	98c	2.45	2.80

Shipped Promptly from Philadelphia, Pa.



## APRONS AND STOOLS

Made from selected woods; and machine sanded. Prices are per 100 lineal feet in random lengths, 8 to 16 feet. For specified lengths, add 10 per cent. Shipped from Philadelphia, Pa.

274 HB 704—Window Apron. Size 3/4 by 3 1/2 inches. Ship. wt. 100 feet, 70 pounds.

Yellow Pine \$2.90  
Red Oak..... 7.95

274 HB 710—Artafact Apron. To match Artafact trim. Size 1/2 by 3 1/4 inches. Ship. wt. 100 feet, 60 pounds.

Yellow Pine \$2.70  
Gum..... 6.20  
Oak..... 6.85

274 HB 703—Window Stool. Size 1 1/8 by 3 1/2 inches. Ship. wt. 100 feet, 90 pounds.

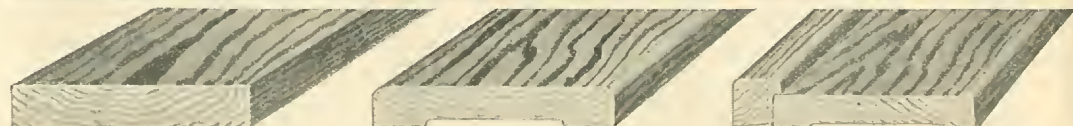
Yellow Pine \$4.65  
Gum..... 8.85  
Red Oak..... 10.50

## PICTURE MOULDING

A handsome Moulding that matches Craftsman trim. Size 5/8 by 1 1/8 inches. Prices are per 100 lineal feet in random lengths. Ship. wt. 100 ft. 20 lbs.

274 HB 689—  
Yellow Pine...\$1.40  
Gum..... 3.50  
Plain Red Oak.... 4.00

# DOOR and WINDOW CASINGS



### Mission Head Casing

Modern—simple—plain! Can be used with any side casing. May also be used for square edge Base Blocks. Prices are per 100 feet in random lengths, 8 to 16 feet. Ship. wt. 135 pounds.

274 HB 699—Size 1 1/2 by 5 1/2 inches.  
Yellow Pine.....\$ 7.75  
Plain Red Oak..... 15.75

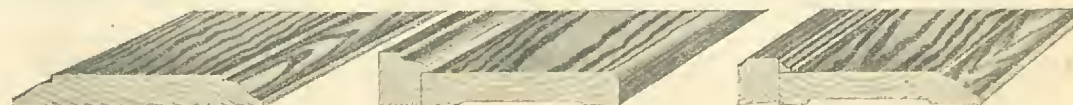
### Round Edge Casing

Can be used as Mullion or Side Casing. Ship. wt. per 100 ft. 85 lbs.

274 HB 690—Round Edge (as pictured).  
Yellow Pine, 3/4 by 4 1/4 inches \$3.70  
Oak, 3/4 by 4 1/4 inches..... 8.85  
274 HB 694—Square Edge (similar to round edge but with square corners).  
Yellow Pine, 3/4 by 5 1/2 inches..\$ 4.65  
Oak, 3/4 by 5 1/2 inches..... 10.50

### Craftsman Casing

Especially adapted for bungalow homes. Prices are per 100 feet in random lengths, 8 to 16 ft.  
274 HB 696—Casing: 5/8 by 3 1/2 inches. Ship. wt. 100 feet, 60 lbs.  
Yellow Pine...\$2.90 Red Oak...\$7.95  
274 HB 697—Back Band: 3/4 by 1 1/8 inch. Ship. wt. 100 feet, 25 lbs.  
Yellow Pine... 72c Red Oak...\$2.00



### Artcraft Mullion Casing

New Artcraft design Mullion casings to match new Artcraft trim. Priced per 100 lineal feet in random lengths. Average ship. wt. per 100 ft. is 100 lbs.

Article Number	Size Inches	Yellow Pine	Gum	Oak
274 HB 681	1 1/2 x 4	\$3.50	\$6.60	\$ 7.95
274 HB 682	1 1/2 x 5 1/2	4.35	8.85	10.50

### Colonial Casing

A two-member Head and Side Casing. Prices are per 100 lineal feet in random lengths.

274 HB 696—Casing: 5/8 by 3 1/2 inches. Ship. wt. 100 lineal feet, 60 lbs.  
Yellow Pine...\$2.90 Red Oak...\$7.95  
274 HB 711—Back Band: 3/4 by 1 1/8 inch. Ship. wt. 100 lineal feet, 22 lbs.  
Yellow Pine... 72c Red Oak...\$2.00

### Artcraft Casing

Up-to-date—artistic—yet low priced. Prices are per 100 feet in random lengths.

274 HB 718—Casing: 1/2 by 3 1/4 inches. Ship. wt. 100 lineal feet, 60 lbs.  
Y. Pine, \$2.70 Gum, \$6.20 Oak, \$6.90  
274 HB 719—Back Band: 3/4 by 1 1/8 inch. Ship. wt. 100 lineal feet, 22 lbs.  
Y. Pine, 72c Gum, \$1.75 Oak, \$2.00

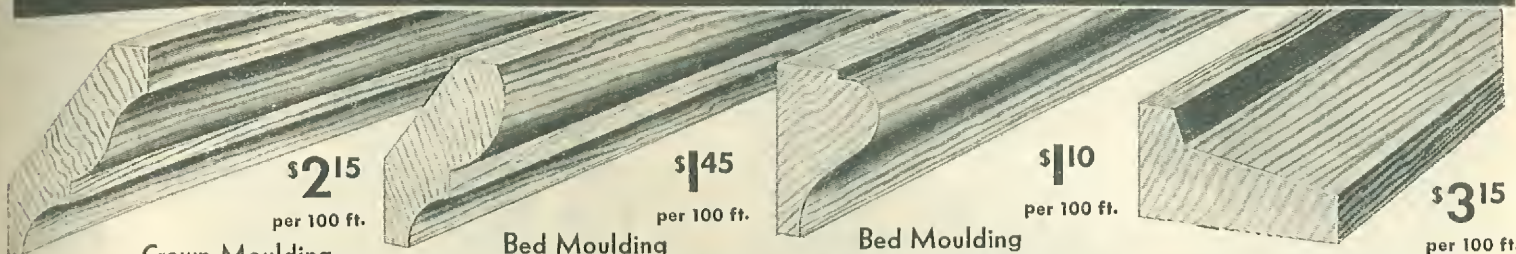
For Exact Lengths of Casing Add 10 Per Cent to Price



First Quality  
Standard Designs

# EXTERIOR TRIM and MOULDINGS

Ward's low prices make your building dollar go farther



## Crown Moulding

You can pay more for your exterior mouldings—but why should you? We make our mouldings of clear Pondsosa Pine—the ideal wood for exterior use because it resists weather, takes paint well and is very economical.

Article Number	Size, Inches	Price
274 HB 1211	3/4 x 2 3/4	\$2.15
274 HB 1212	3/4 x 3 1/4	2.65
274 HB 1213	3/4 x 3 3/8	3.00
274 HB 1214	3/4 x 4 1/4	3.60

## Bed Moulding

Wards Clear Pondsosa Pine Mouldings are the standard designs used extensively by architects. There is no necessity of paying big prices for your home improvements when materials cost you so little at Wards.

Article No.	Size, Inches	Price
274 HB 1216	3/4 x 1 3/4	\$1.45
274 HB 1217	3/4 x 2	1.55
274 HB 1218	3/4 x 2 1/4	1.80

For Low Freight Rates see Page 2.  
Wards Budget Plan—Page 3.

## Bed Moulding

This style Bed Moulding comes in one size only, in random lengths from 10 to 16 feet.

274 HB 1219—3/4 x 1 1/4 inches ..... \$1.10

Mouldings are priced per 100 lineal feet in random lengths 10 to 16 feet. For specified lengths add 10% to prices listed. Average shipping weight per 100 lineal feet, 27 pounds.

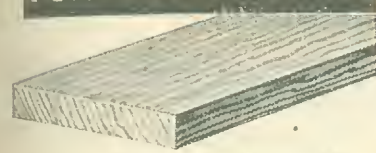
Low Freight Rates on Page 2. Shipped from Factory on Philadelphia, Pennsylvania.

## Water Table Drip Cap

Look over every foot of drip cap around your house and replace the weather rotted pieces with this fine quality clear Fir. It will more than repay you by preventing seepage of water into foundations. Average shipping weight per 100 lineal feet, 36 pounds. Shipped from Factory in Philadelphia, Pennsylvania.

Article Number	Size, Inches	Price
274 HB 660	1 1/2 x 2	\$3.15
274 HB 661	1 1/2 x 2 1/2	3.65

## PONDOSA PINE LATTICE



Clear Pondsosa Pine for trellises, and panel work. Ship. wt. per 100 lineal feet, 12 lbs.

274 HB 666—Per 100 lineal feet.....89c

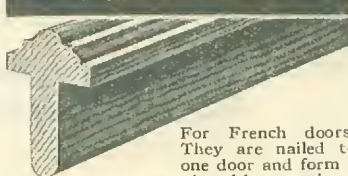
Size 3/16 x 1 3/8.....

274 HB 667—Per 100 lineal feet.....\$1.15

Size 3/16 x 1 3/4.....

Shipped from Mills in Philadelphia, Pennsylvania.

## T-ASTRAGAL



For French doors. They are nailed to one door and form a shoulder against

which the other can shut tightly. Specify whether for 1 3/8-in. or 1 3/4-in. door. Furnished in 8-foot lengths. Ship. wt. 3 lbs.

274 HB 713—Pondsosa Pine. Each.....75c

274 HB 714—Red Oak. Each.....\$1.25

274 HB 715—Gum. Each.....1.20

## HARDWOOD THRESHOLD



Replace worn down thresholds with this fine machine finished Oak Threshold. Ship. wt. each, 2 lbs. 8 oz.

274 HB 720—Size 3/8 by 3 3/4 inches.....25c

2 ft. 9 in. long.....30c

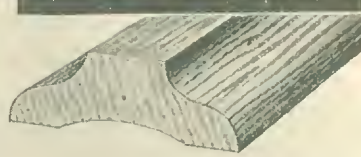
3 ft. 1 in. long.....30c

4 ft. 1 in. long.....35c

5 ft. 1 in. long.....40c

Shipped from Factory in Philadelphia, Pennsylvania.

## O. G. BARN BATTENS



Make your barn weather-tight, close up the open seams with Wards clear Fir O. G. Barn Battens. Furnished in random lengths. Size 3/4 by 2 1/4 inches. Ship. wt. per 100 lineal feet, 25 pounds.

274 HB 678—Per 100 lineal feet.....\$1.85

Shipped from Factory in Philadelphia, Pennsylvania.

A new porch will improve your home—  
See how little it costs at Ward's for

# PORCH MATERIALS

## SQUARE COLONIAL COLUMNS

Clear Douglas Fir built-up columns, good-looking and strongly made. Economical too, at Ward's low mill-to-you prices. Slightly tapered at top. Can be cut shorter if desired. The square shape is widely used for all types of porches. State size and height. Average shipping weight 58 pounds.

Size of Shaft at Base	Height Feet	274 HB 734 Sq. Column
8 x 8	8	\$3.45
10 x 10	8	4.65
10 x 10	10	5.85

## ROUND COLONIAL COLUMNS

Columns of finest Clear Fir. Pieces firmly held by a lock joint, cemented with waterproof glue. Can be cut shorter. Tapered to 1-inch smaller diameter at top. Carefully machined and smoothed. Prices include cap and base. 274 HB 735—State diameter and height.

Diam. at Base	Height	Ship. Wt.	Each
6 inches	8 feet	30 lbs.	\$3.25
8 inches	8 feet	42 lbs.	3.95
10 inches	8 feet	58 lbs.	5.35
10 inches	9 feet	65 lbs.	5.95
12 inches	10 feet	115 lbs.	6.95

Colonial Columns Shipped from Philadelphia, Pennsylvania.

For Monthly Payments See  
Wards Budget Plan on Page 3

## SQUARE PORCH BALUSTERS

A practical square porch baluster. Made of clear Fir—a weather resisting wood of unusual strength that takes paint readily and will resist rot during years of exposure. Size 1 3/4 by 1 3/4 by 24 inches. Ship. wt. each, 1 lb

274 HB 725—Each.....7c

Long lengths, 10 to 20 ft. Per ft.....6c

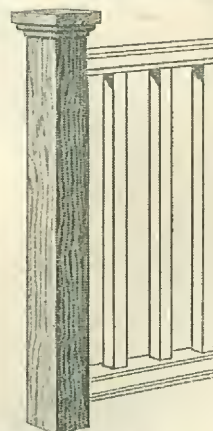
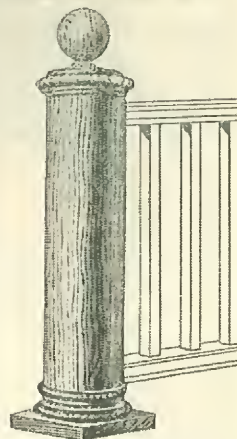
Shipped from Philadelphia, Pennsylvania.

## Colonial Porch Newels

These porch newels are of the latest design and are very popular for all kinds of porches.

You can rebuild your old porch or build a new one without difficulty, using the materials shown on this page. They are made from carefully selected lumber by expert workmen and priced to save you money. All material is carefully machined and smoothly sanded ready for painting.

Shipped from Philadelphia, Pennsylvania.



Made from clear Fir, 5 in. by 5 in. square, and 4 ft. long. Exceptionally well constructed. Cap is furnished as shown. Ship. wt. each, 12 lbs.

274 HB 739—Each.....\$1.30

## COLONIAL BOTTOM RAIL



Popular Colonial porch rail of clear Fir. Very neat in appearance and smooth, ready for painting

Size 1 3/4 x 3 1/2 inches. Shipped in random lengths. For specified lengths add 10 per cent. Ship. wt. per foot, 1 lb. 4 oz.

274 HB 724—Per lineal foot.....7c

Shipped from Philadelphia, Pennsylvania.

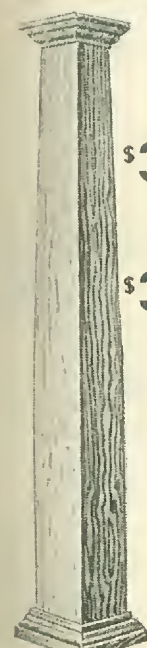
## COLONIAL TOP RAIL



These rails harmonize well with turned or square columns and balusters. Made of clear Fir. Size, 1 3/4 x 3 1/2 inches. Shipped in random lengths. For specified lengths add 10 per cent. Ship. wt. per foot, 1 lb. 4 oz.

274 HB 723—Per lineal foot.....7c

Shipped from Philadelphia, Pennsylvania.



274 HB 734  
Square Column



274 HB 735  
Round Column

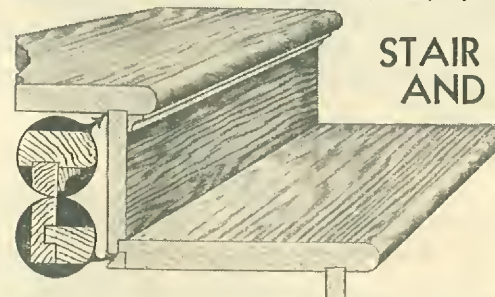




# Everything You Need to

That means no tiresome search for what you want . . .

If you were planning to sell your home you'd tear out that old enclosed stairway and put in a modern open one . . . for a new stairway would increase the selling value of your home out of all proportion to the little you spend. If a new stairway makes a home better to buy . . . surely it makes it better to live in for you yourself!



## STAIR TREADS AND RISERS

**79c**  
Each

Stair Steps or Treads are carried in stock in Yellow Pine and Plain Red Oak. Size of each tread  $1\frac{1}{16}$  inches thick by  $11\frac{1}{4}$  inches wide by 3 feet 5 inches long. They have one edge rounded and are machine dressed and smoothed on the top side. Average ship. wt. each 12 lbs.

Size of each riser,  $\frac{3}{4}$  inch thick by  $7\frac{1}{2}$  inches wide by 3 feet 5 inches long. Surfaced and machine smoothed on face side. Furnished in Yellow Pine, Gum or Oak. With Gum Risers we recommend Oak Treads. Ship. wt. each 5 lbs. Shipped from Philadelphia, Pa.

Kind of Wood	274 HB 762—Stair Steps	274 HB 763—Stair Riser
Yellow Pine . . . . .	79c each	29c each
Gum . . . . .		35c each
Plain Red Oak . . . . .	\$1.35 each	45c each

## CONVENIENT DISAPPEARING STAIRWAY

Make your attic a useful part of your home with an inexpensive, space-saving disappearing stairway. To open, just pull the cord—to close, simply raise it, and give a slight push upward. No weights or pulleys. Its overhanging weight balances and closes the door. It goes up so easily a child can operate it. When closed, the stairway lies flat along the attic floor entirely out of the way. All that shows from below is a neat wood panel in the ceiling. The panel is in natural Ponderosa Pine, smoothly sanded and ready to be finished to match other woodwork in your home.

Trim for ceiling opening not included. See Page 78 for prices of trim. Stairway is furnished set up with complete instructions for installing. Allow 4 to 6 feet beyond opening for stairway when closed. Furnished in sizes listed below.

Height from Floor to Floor	Finished Opening Size in Ceiling Ft. In. Ft. In.	Floor Space at Base Required for Stairs
7 ft. 7 in.	2-0 x 5-6	4 feet 9 inches
8 ft. 1 in.	2-0 x 5-6	5 feet 0 inches
8 ft. 7 in.	2-0 x 5-6	5 feet 3 inches
9 ft. 1 in.	2-0 x 5-6	5 feet 7 inches
9 ft. 7 in.	2-0 x 6-0	5 feet 10 inches
10 ft. 1 in.	2-0 x 6-0	6 feet 1 inch

### PRICES

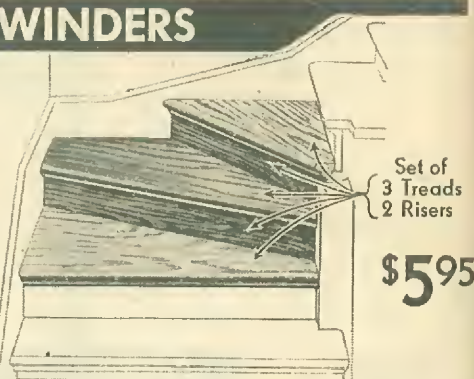
274 HB 866—Without hand rail. Shipping weight 150 pounds . . . . . **\$29.50**

274 HB 867—With hand rail. Ship. wt. 150 lbs. . . . . **31.00**

Be sure to state if you want hand rail. Shipped from Mill near Pittsburgh, Pa.

## STAIR WINDERS

Stair Winders are furnished for right or left hand turns. Illustration shows right hand turn. Be sure to tell us whether winders are wanted for right or left hand turn.



Set of 3 Treads 2 Risers  
**\$5.95**

Stair Winders are used for stairways making a right angle turn without a landing. This complete set includes three treads, two risers and two pieces of cove moulding. It is suitable for all stairways up to 3 feet 5 inches wide. For wider stairs write for special prices.

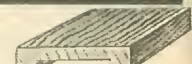
Important—Winders are furnished for right hand or left hand turns. Be sure to specify which you desire. Illustration above shows a set of right hand winders. Shipping weight 50 lbs. per set. Shipped from Philadelphia, Pa.

274 HB 732—Set of Stair Winders. State Wood. Oak or Gum . . . . . \$7.95 Yellow Pine . . . . . **\$5.95**

## Fillet and Subfillet for Stair Rails



Use with stair rails on opposite page where  $1\frac{1}{4}$ -in. square balusters are desired. Sub-Fillet is  $1\frac{1}{8}$  by  $\frac{3}{8}$ -inch plowed  $1\frac{1}{2}$  by  $\frac{1}{2}$  in.



Per Lineal Foot	Sub-Fillet 274 HB 755	Fillet 274 HB 754	Average ship. wt. per 100 feet, 25 lbs. Shipped from Philadelphia, Pennsylvania.
Yellow Pine . . . . .	1 1/2c	1c	
Gum . . . . .	2c	1 1/2c	
Plain Red Oak . . . . .	2 1/2c	2c	



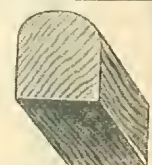
## LANDING TREADS

The top or landing tread used on platforms and second floor levels is generally not as wide as the regular stair tread. We made our landing treads  $1\frac{1}{16}$  inches thick,  $3\frac{3}{4}$  inches wide, and 3 feet 5 inches long. They are rabbeted on the inner edge to  $\frac{7}{8}$ -inch thickness so as to finish level with flooring on platforms or second floor halls. Average shipping weight each, 2 pounds.

274 HB 764—State Wood. Yellow Pine, Each, . . . . . **16c** Plain Red Oak, Each . . . . . **35c**

Shipped from Philadelphia, Pennsylvania.

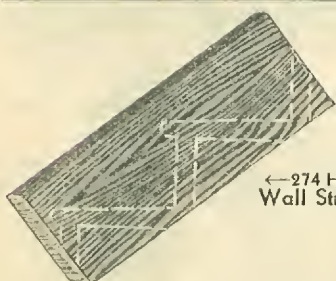
## RETURN NOSING for Open Stairways



Every open stringer stairway requires Return Nosing for each step. This is a standard pattern  $1\frac{1}{16}$  by  $1\frac{1}{4}$  inches. When ordering allow about three inches per tread for mitering. Average ship. wt. per 100 feet, 50 pounds.

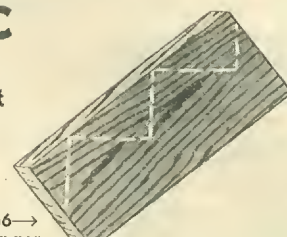
274 HB 756—State Wood. Yellow Pine, Lineal foot . . . . . **2c** Plain Red Oak, Lineal foot . . . . . **4 1/2c** Shipped from Philadelphia, Pennsylvania.

## FACE AND WALL STAIR STRINGER



← 274 HB 767 Wall Stringer

**15c**  
Per Foot



274 HB 766 → Face Stringer

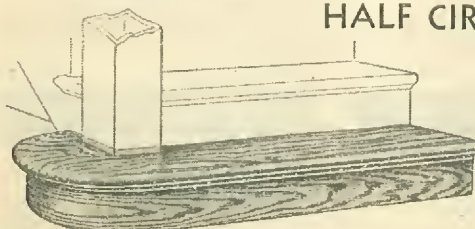
These illustrations show the relative positions in which the stringers are used. The dotted lines indicate the way stringers are ordinarily cut. The horizontal line indicates the tread and the perpendicular line indicates the riser. We do not cut the stringers for treads and risers because the space allotted for stairs and the height of ceilings differ in almost every building.

Both Wall and Face stringers are  $\frac{3}{4} \times 11\frac{1}{4}$  inches. Face Stringer is square edged while the Wall Stringer is furnished with one rounded edge. Average shipping weight per lineal foot, 3 pounds.

Kind of Wood	Lengths Furnished	Prices are	274 HB 766	274 HB 767
Yellow Pine	10, 12, 14, 16 ft.	Per lineal foot	15c	15c
Gum	10, 12, 14, 16 ft.	Per lineal foot	18c	18c
Plain Red Oak	10, 12, 14 ft.	Per lineal foot	25c	25c

## HALF CIRCLE STARTING STEP AND RISER

**\$7.95**



This Starting Tread and Riser with half circle end is very popular in modern stair-construction. It gives a very finished appearance as well as an attractive approach to your staircase. Conforms to our stock pattern Step and Riser

shown at top of page. Made for right and left hand ends. Illustration shows left hand end. Be sure to state whether circle end is for right or left hand side when facing stairs.

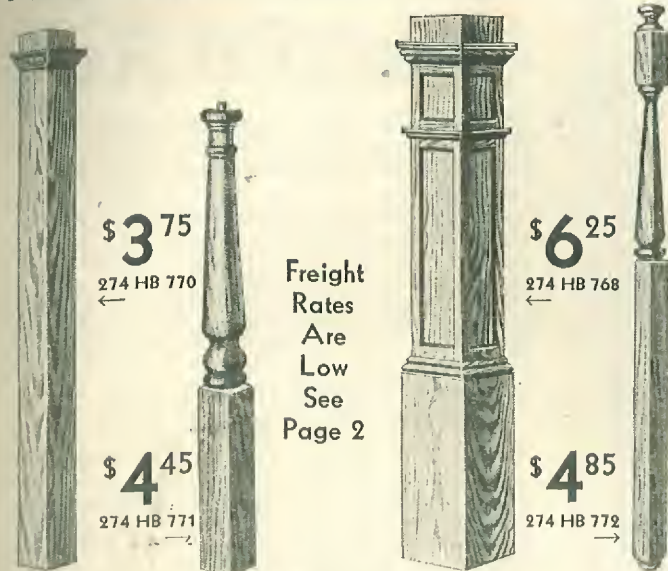
274 HB 765—Average shipping weight 30 pounds each. Yellow Pine (specify right or left hand), Each . . . . . **\$7.95** Gum riser, Oak tread (specify right or left hand), Each . . . . . 9.75 Plain Red Oak (specify right or left hand), Each . . . . . 9.75

Shipped from Philadelphia, Pa.



# BUILD YOUR STAIRS!

No waiting for "Special" Orders...you save time and money



\$3.75

274 HB 770

\$4.45

274 HB 771

\$6.25

274 HB 768

\$4.85

274 HB 772

Freight  
Rates  
Are  
Low  
See  
Page 2

## Stair Angles and Newels

All newels are hand smoothed and made from thoroughly kiln-dried, one-inch clear lumber; each lock joint glued. We furnish loose bottom cap with all angle newels. NOTE: 274 HB 768 is 4 ft. 5½ in. high, 8x8 in. base and 6x6 in. shaft, suitable for open or closed string board; base of post 20 in. high allowing for one or two risers; 274 HB 771 is for use only with Colonial Easement No. 1042.

Article Number	Width of Shaft	Length	Ship. Wt. Each	Prices Per Post		
				Yellow Pine	Gum	Red Oak
274 HB 770	5-x5 in.	5 ft. 6 in.	20 lbs.	\$3.75	\$4.50	\$4.95
274 HB 768	8-x8 in.	4 ft. 5½ in.	25 lbs.	6.25	6.85	7.25
274 HB 771	3¼x3¼ in.	4 ft. 2 in.	15 lbs.	4.45	4.85	5.60
274 HB 772	3¼x3¼ in.	5 ft. 5 in.	15 lbs.	4.85	5.20	5.90

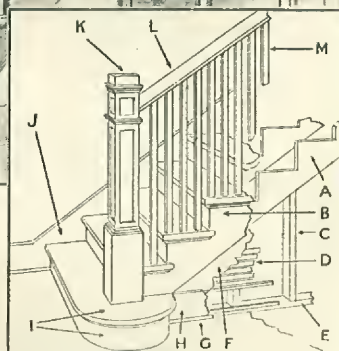


## The ALDEN STAIRWAY

Materials specified below are regular materials shown elsewhere on these two pages. This Stairway is 16 risers or 10 feet high. Stair stringers are not housed for treads and risers. If housing is wanted add \$5.00 to price of complete stairway. Stairway includes:

- 274 HB 765—1 Starting step and riser.
- 274 HB 763—15 Risers.
- 274 HB 762—14 Treads.
- 274 HB 764—1 Landing tread.
- 274 HB 756—14 Lin. ft. return nosing.
- 274 HB 768—1 Starting newel.
- 274 HB 758—1 Wall rosette.
- 274 HB 751—8 Lin. ft. stair rail.
- 274 HB 755—8 Lin. ft. sub. fillet.
- 274 HB 754—8 Lin. ft. fillet.
- 274 HB 767—24 Lin. ft. wall stringer.
- 274 HB 766—8 Lin. ft. face stringer.
- 274 HB 662—50 Lin. ft. cove.
- 274 HB 761—21 Pieces square balusters.
- 274 HB 778—Alden Stairway Complete

Yellow Pine \$41.00 Gum \$58.00 Oak \$62.00



## Cutaway View of Stairway

A—Rough Stringer  
B—Face Stringer  
C—Stairing  
D—Lath  
E—Plate  
F—Plaster  
G—Carpet Strip  
H—Baseboard  
I—Starting Step and Riser  
J—Wall Stringer  
K—Starting Newel  
L—Hand Rail  
M—Balusters  
N—Cove Moulding and Return Nosing are shown above arrow point "B."

STAIR MATERIALS  
Shipped from Factory in  
Philadelphia,  
Pennsylvania

## COLONIAL STAIR MATERIAL

On this page you'll find all the matched materials and accessories to build or rebuild Colonial Stairs—Stair and Angle Newels above at left—popular Stair Balusters at left—Colonial Easements below—Stair Rail at left—etc.

And prices at Wards are so unusually low now, you will be convinced that this is the time to build those much-desired and very popular Colonial Stairs.

See the inside front cover of this catalog for color illustration of Colonial Stairway.



## STAIR RAILS

### Colonial Design

For modern stairways. Size 2¼ inches wide by 2½ inches high. Priced per foot in random lengths. For specified lengths add 2c per foot extra. Ship. wt. per lineal foot, 1 lb. 274 HB 750—Birch or Oak. 39c Per lineal foot.

### Distinctive Design

This pattern is 2½ by 3½ in. Rabbetted for 1½ in. balusters. If Fillet (as illustrated) is wanted add 2c per foot to prices. For 1½ in. balusters it will be necessary to use Sub-Fillet 274 HB 755 and Fillet 274 HB 754 shown on page 80. Ship. wt. per lineal foot 2 lbs. Furnished random lengths. Specified lengths 2c per ft. extra. 274 HB 751—Per lineal foot 33c Yellow Pine. 39c Birch or Oak.

### Graceful Style

Size 3½ by 1½ in. Specified length 1c per ft. extra. Ship. wt. per ft. about 2 lbs. 274 HB 752—Yellow Pine. Per foot 16c Oak. Per foot 30c

### Wall Stair Rail

This rail is generally used on stairways between plaster partitions such as basement or attic stairs. Size 2 by 1¾ in. Ship. wt. per foot, 1 lb. 8 oz. Specified lengths 1 cent per foot extra. 274 HB 753—Per lineal foot: Yellow Pine. 15c Plain Red Oak. 20c

### Stair Rail Bolts

Special bolts are required to bolt two pieces of rail together, or a straight piece of rail to a crook or to bolt a piece of rail to a newel. 274 HB 776 is used for joining two pieces of rail together. 274 HB 777 is used for bolting a piece of rail to a newel post. Ship. wt. each, 3 oz. 274 HB 776—3½x4½ in. Each. 10c 274 HB 777—3½x4½ in. Each. 11c Stair Bolts Shipped from Philadelphia, Pennsylvania.

For Freight Rates  
See Page 2

## STAIR BALUSTERS

### Square Colonial

(At right) Because of the size, 1½x1½x34 inches long, either three or four balusters can be used for each step. Our No. 274 HB 751 Hand Rail is plowed for 1½-inch balusters. When the 1½-inch Square Balusters are used, order sub-fillet and fillet on opposite page. Nos. 274 HB 754 and 274 HB 755. Ship. wt. 1 lb. each. 274 HB 764—Yellow Pine. Each. 8c Birch. Each. 14c Red Oak. Each. 14c

### Turned Baluster

(At extreme left) Size 1¾x1¾x28 in. and 32 inches long. Average ship. wt. 1 lb. each. State length wanted. 274 HB 760—Yellow Pine. Each. 39c Red Oak. Each. 59c

### Turned Colonial

(At left) Size 1½x1½x37½ inches long. Ship. wt. 1 lb. each. 274 HB 773—Pondosa Pine. Each. 49c Oak. Each. 55c



### Acorn Tip

Ornamental piece for ends of Wall Stair Rail to give finished appearance. Diameter 1¾ inches. Weight 2 ounces each. 274 HB 759—Yellow Pine. Each. 19c Oak. Each. 25c

### Wall Rosette

Shipping weight each 1 lb. 274 HB 758—Yellow Pine. Each. 19c Gum. Each. 25c Plain Red Oak. Each. 30c

### Hand Rail Bracket

Used with wall stair rail No. 274 HB 753. Back plate, 3 by 1½ inches. Furnished with screws. Ship. wt. each, 13 oz. 274 HB 774—Sand Brass. Each. 25c 274 HB 775—Dull Brass. Each. 25c



## Colonial Gooseneck

Match Colonial stair rail 274 HB 751, and curved to match the rise and run of our regular stair step and risers. Used to join a rising rail with a level rail. Size 7½ inches rise, 8½ inches run. Carefully made by expert workmen. Smoothly sanded ready to finish. Shipping weight each, 6 pounds. 274 HB 1040—State wood. Yellow Pine. Each. \$5.95 Birch. Each. 6.30 Oak. Each. 6.50

## Rise and Level Turn

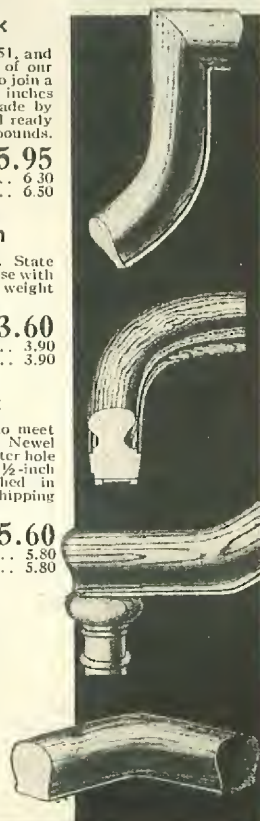
For either right or left hand turns. State which kind of turn you want. For use with stair rail No. 274 HB 751. Shipping weight each, 6 pounds. 274 HB 757—State wood. Yellow Pine. Each. \$3.60 Birch. Each. 3.90 Oak. Each. 3.90

## Colonial Easement

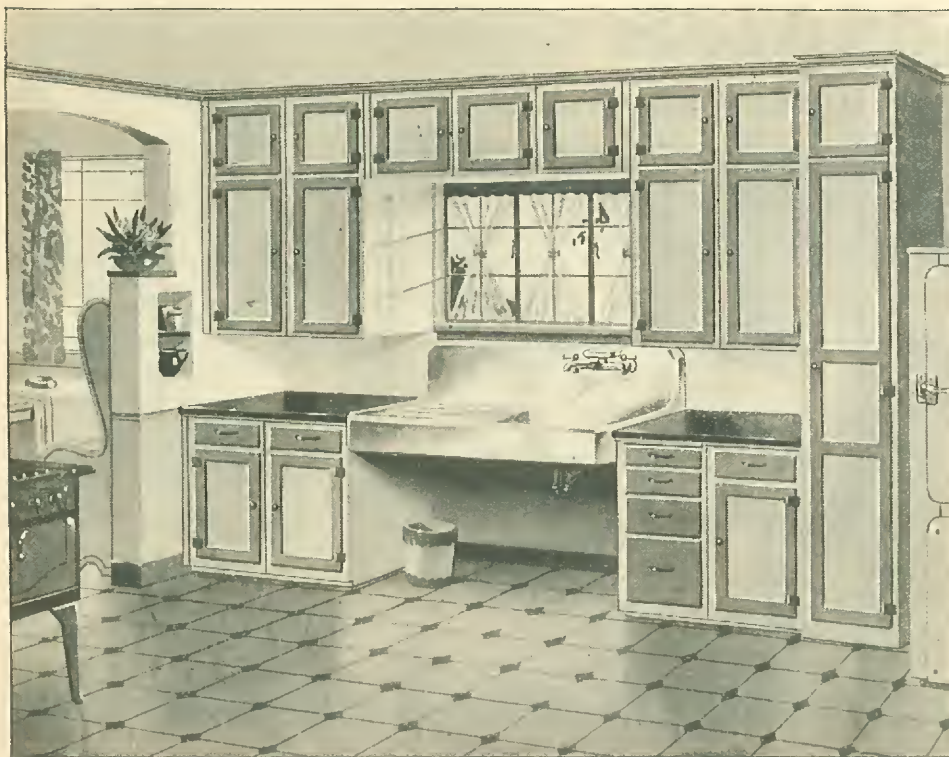
For bringing rail to proper level to meet Newel head. Used with Colonial Newel No. 274 HB 771. Has ¾ inch diameter hole to fit over pin in Newel post. Has 7½-inch rise and 8½-inch run. Furnished in Yellow Pine, Birch and Oak. Shipping weight 2 pounds. 274 HB 1042—State wood. Yellow Pine. Each. \$5.60 Birch. Each. 5.80 Oak. Each. 5.80

## Quarter Level Turn

Colonial Design Quarter Level Turn for use on landing around well hole openings. Either right or left hand. To match stair rail No. 274 HB 751. Furnished in either Yellow Pine, Birch or Oak. Ship. wt. each 6 lbs. Not Prepaid. 274 HB 1038—State wood. Yellow Pine. Each. \$3.60 Birch. Each. 3.90 Oak. Each. 3.90 All Stair Material Shipped from Factory in Philadelphia, Pennsylvania.







# BUILT-IN that Fit Any

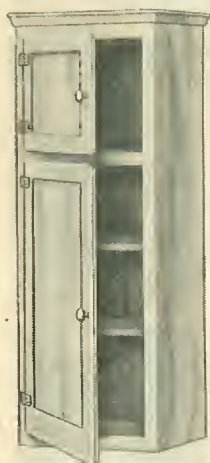
A well planned, well arranged Kitchen Cabinet provides a convenient place for every item . . . saves many steps that make household tasks so tiring.

NOW every woman can design a kitchen cabinet for her own special requirements with every door and shelf exactly where she wants it. Through Wards individual cases you can get sizes and shapes suitable to any room or to your personal preferences. With the upper and lower cases listed below and on the opposite page, any number of practical combinations are possible. Order the single units necessary for the combination you prefer. When you add up the prices, you'll find the total cost surprisingly low.

## NU-KITCHEN ENSEMBLE—at left

The attractive combination of individual units shown at left is assembled of two Upper Units 274 HB 1302, one Triple Connecting Unit 274 HB 1309, one Lower Unit 274 HB 1308, one each of Lower Units 274 HB 1306 and 274 HB 1307, and Broom Case Unit 274 HB 1311. Ship. wt. complete, 250 lbs.

274 HB 1300—Complete . . . . . \$76.50



**Single Upper Case Unit**  
Pondosa Pine. Outside dimensions 17 in. wide, 14 in. deep by 53 1/4 in. high. Doors have glass knobs. Ship. wt. 25 lbs.  
274 HB 1301—Complete . . . . . \$6.75



**Double Upper Case Unit**  
Generous sized cabinet with four doors and four shelves. Built of clear Pondosa Pine 3/4 in. thick with Fir panel doors. Outside dimensions 34 in. wide by 14 in. deep by 53 1/4 in. high. Doors have attractive glass knobs. Ship. wt. 50 lbs.  
274 HB 1302—Complete . . . . . \$12.25



**Triple Upper Case Unit**  
There's plenty of room here for cooking utensils, dishes, canned goods—for all those things you want to have close at hand. This big, over-size cabinet has six doors and four strong shelves. Made of 3/4-in. Pondosa Pine with Fir panel doors. Outside dimensions: 51 in. wide by 14 in. deep by 53 1/4 in. high. Glass knobs on doors.  
274 HB 1303—Complete. Ship. wt. 75 lbs. . . . \$17.50



### Upper Case Unit

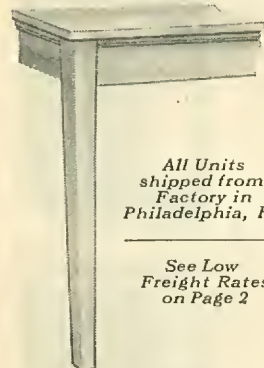
This handy cabinet was designed especially to fit above an ice box, but may be used wherever a cupboard of this size is desired.

Sturdily constructed of 3/4-inch Pondosa Pine with Fir panel doors. All four doors are equipped with glass knobs. Two shelves in cabinet.

Outside dimensions: 34 inches wide by 14 inches deep by 34 1/4 inches high. It has a lot of storage room for the small space it occupies. Ship. wt. 40 lbs.

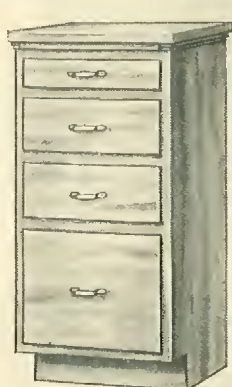
274 HB 1304—Complete . . . . . \$8.95

All units shipped from Factory in Philadelphia, Pa.



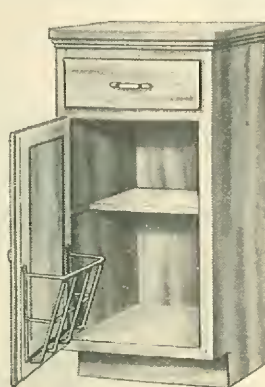
All Units  
shipped from  
Factory in  
Philadelphia, Pa.

See Low  
Freight Rates  
on Page 2



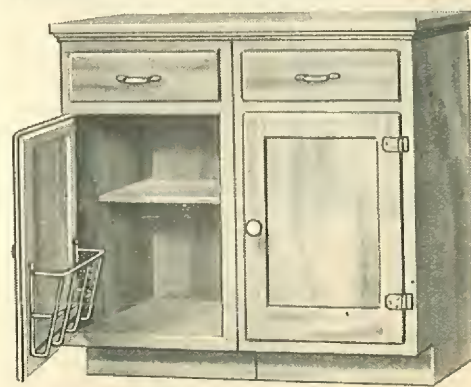
### Four-Drawer Lower Unit

Can be used alone or in combination. 3/4-in. Pondosa Pine with 1 1/4-in. Hardwood table top. 17 in. wide by 20 in. deep by 34 3/4 in. high. Has cutting board and four drawers, including metal-lined bread drawer and divided utensil drawer. Chromium plated handles. Ship. wt. 25 lbs.  
274 HB 1306—Complete . . . . . \$11.50



### Lower Case Unit

Has one drawer above closet with shelf and lid rack. Made of 3/4-in. Pondosa Pine with 1 1/4-in. Hardwood table top. Size: 17 in. wide by 20 in. deep by 34 3/4 in. high. Chromium-plated pull on drawer; glass knob on door. A very popular cabinet. Ship. wt. 20 lbs.  
274 HB 1307—Complete . . . . . \$7.25



### Double Lower Case Unit

A well-proportioned, compact case with an unusual amount of storage space. Excellent for use alone or combined with an upper case. Solidly built of 3/4-in. Pondosa Pine and has 1 1/4-in. Hardwood table top and Fir panel doors. Case has two doors, two drawers and two shelves. Drawers are undivided for linens, etc. and have chromium plated pulls. Glass knobs on doors. Outside dimensions: 34 in. wide by 20 in. deep by 34 3/4 in. high. Ship. wt. 40 lbs.  
274 HB 1308—Complete . . . . . \$12.75



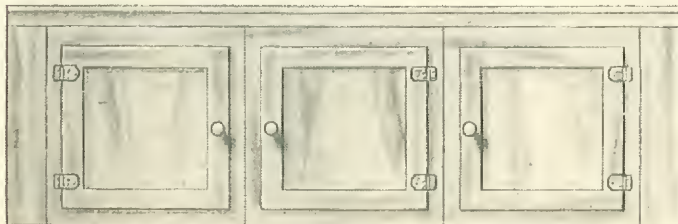
# CABINETS Kitchen...

Wards kitchen case units are made by skilled cabinet makers, of fine high-grade materials—Selected Pongosa Pine, with all door panels of Fir. Lipped doors and drawers for tight fit. All lower cases have Hardwood table tops and recess at bottom for toe space. Fine quality hardware is included. All parts are smoothly sanded, ready for you to paint, stain or enamel. Units do not have backs but fit tight against wall which forms back.

Cabinets are shipped knocked down from Factory in Philadelphia, Pa. to save you greatly on shipping charges. Included with each cabinet are blueprints, giving complete, simple instructions for assembling.

## Wards Engineers Will Help You Select Cabinets to Meet Your Requirements

When ordering units send rough floor plan sketch showing where you want units placed and how you want them arranged, so that we may provide proper toe strip, ceiling mould, etc. If you have any trouble in planning a suitable arrangement, send us sketch showing location, width and height of doors and windows, exact ceiling height and size of wall spaces. Wards Engineers will suggest a suitable combination and quote prices on the necessary units.



See Low Freight Rates on Page 2.

### Triple Connecting Case Unit

Designed to fit space above sink or windows, so that all available space is utilized. 3/4-inch Pongosa Pine construction, with Fir panel doors equipped with attractive glass knobs. Case has 8-inch fillets at each end for adjustment to width.

Outside dimensions: 51 in. wide by 14 in. deep by 18 3/4 in. high. Ship. wt. 30 lbs.

274 HB 1309—Complete.....\$9.25



### Double Connecting Case Unit

For smaller sink or window space, yet having ample storage space. All parts of 3/4-in. Pongosa Pine excepting door panels, which are Fir Veneer. Two doors equipped with glass knobs.

Outside dimensions 34 in. wide by 14 in. deep by 18 3/4 in. high. 8-inch fillets each end for adjustment to width. Ship. wt. 20 lbs.

274 HB 1310—Complete.....\$6.75

### Broom Case Unit

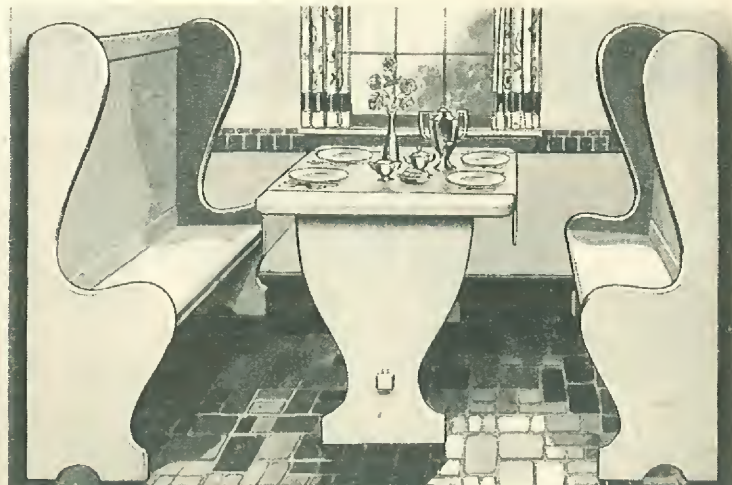
Shown at Left

Provides a convenient storage space for brooms, dust mops, etc. It will combine very well with other cabinets listed on these pages. Has two doors and two shelves. Constructed of clear Pongosa Pine 3/4 in. thick with Fir door panels. Doors have glass knobs.

Outside dimensions 17 in. wide by 20 in. deep. Adjustable to ceiling height—from 8 ft. 6 in. to 9 ft. Ship. wt. 25 lbs. Freight is fast and economical. See low Rates on Page 2.

274 HB 1311—Complete.....\$12.95

Now You Can Buy Any \$20 Order on Wards Budget Plan of Monthly Payments. See Page 3 for details.



## COZY ALCOVE DINETTE SET

\$15.75

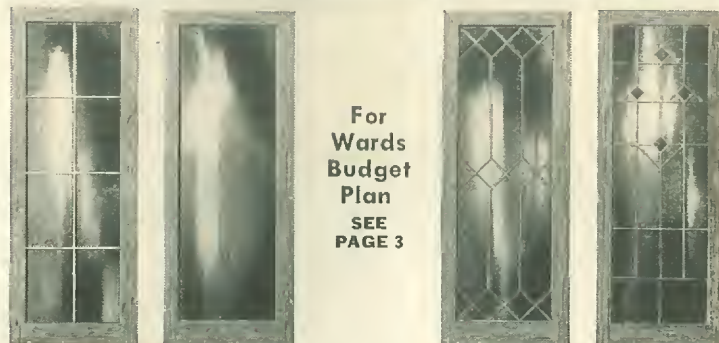
This sturdy, well designed Breakfast Set is large enough to accommodate 4 adults comfortably. And its price is far lower than you would expect for such high quality. Made especially for built-in breakfast nook, but it can be used in a corner of the kitchen, sun porch, etc.

Made of clear Pongosa Pine... all parts smoothly sanded, ready for painting or staining. Floor space required, 5 ft. 6 in. wide by 3 ft. 8 in. long. Table is 2 ft. 2 in. wide by 3 ft. 8 in. long and 2 ft. 6 in. high. Seats are 1 ft. 6 in. wide by 3 ft. 8 in. long and 1 ft. 6 in. from floor.

Shipped to you knocked down in sections to save you freight charges. Anyone can assemble it by following the simple directions which are included. All parts are perfectly machined and fitted. Avg. ship. wt. 108 lbs. per set.

Shipped from Mills in Philadelphia, Pa. See Page 2 for low Freight Rates. Wards Monthly Payment Budget Plan on Page 3. 274 HB 846—Breakfast Nook Set. Each.....\$15.75

## ARTISTIC CHINA CLOSET DOORS



For  
Wards  
Budget  
Plan  
SEE  
PAGE 3

274 HB 880  
Clear Plain Glass

274 HB 884  
Clear Plain Glass

274 HB 886  
Leaded Crystal Glass

274 HB 885  
Leaded Art Glass

These attractive Doors are especially suitable for built-in china closets, buffets, dining room or kitchen cases. The two doors at right are glazed with plain leaded crystal glass, except design 274 HB 885 which is leaded art glass. The 1-light and 8-light plain glass doors at left are fine for the upper sections of your kitchen cabinets, pantry cases, etc. Doors are 1 1/2 in. thick—solidly constructed with doweled and glued joints. Glass held in place by a wood glass bead. Leaded glass joints are neatly made and well soldered. Furnished in Yellow Pine and Red Oak. Smoothly sanded, ready to finish.

Shipped promptly from Mill in Philadelphia, Pa. Freight is fast and economical—see Freight Rates on page 2.

Furnished in one size only—1 foot 6 inches wide by 4 feet high. State Wood.

Article Number	Yellow Pine	Red Oak	Shipping Weights
274 HB 880	\$2.75	\$3.40	22 lbs.
274 HB 884	1.90	2.40	22 lbs.
274 HB 885	6.50	7.10	25 lbs.
274 HB 886	6.25	6.85	25 lbs.

## VENEER PANEL DOORS

Furnished with Pongosa Pine rails and three-ply Fir veneer panels to prevent warping. Three sizes also furnished with selected Oak rails and panels. All doors smoothly sanded, ready for you to finish to match your woodwork. All doors 3/4 or 1 1/2 inches thick. Mortise and tenon joints for maximum strength. Side and bottom rails can be cut down as much as 3/4 in. in width and height. Eight sizes are listed. If you want a smaller door, order next size larger and cut down to fit. To fill wider opening, order doors in pairs. Average shipping weight, 4 pounds.

Shipped from Mill in Philadelphia, Pa. Be sure to state size and wood wanted when ordering.

Size	274 HB 882	274 HB 891
Width Height Ft. In. Ft. In.	1 1/2-in. thick Per Door	3/4-in. thick Per Door
1-0 by 1-6	60c	55c
1-2 by 2-0	68c	61c
1-2 by 2-6	86c	78c
1-2 by 4-0	\$1.19	\$1.07
1-6 by 2-0	69c	62c
1-6 by 2-6	89c	81c
1-6 by 4-0	\$1.20	\$1.14
2-0 by 3-0	1.10	1.04

Freight is fast and economical. See low Rates on Page 2. Use Wards Budget Plan of Monthly Payments. See Page 3.

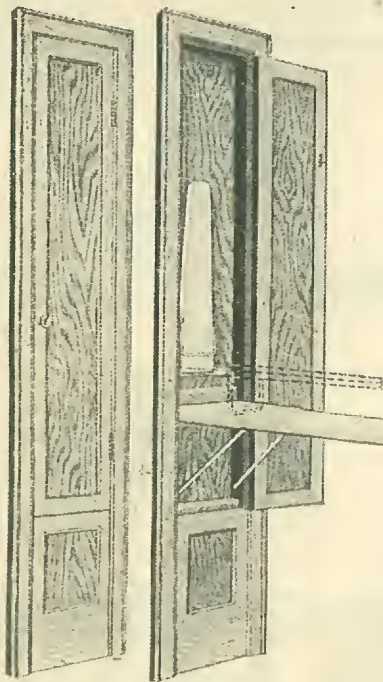


274 HB 882



# CONVENIENT Built-In ADDITIONS TO ANY HOME

## BUILT-IN CABINET IRONING BOARD



**\$5<sup>95</sup>**

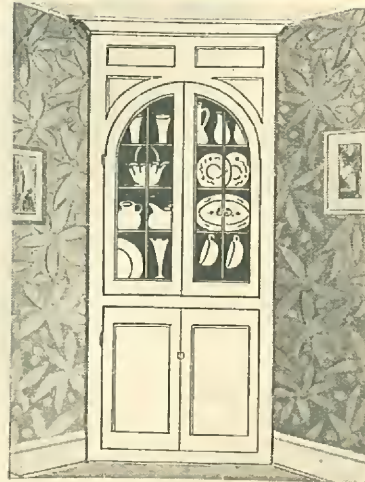
One minute an attractive panel in the wall—the next instant a durable, rigid ironing board all ready for use. There's no hauling a heavy or cumbersome board from closet or pantry when you have one of Wards Modern built-in Ironing Boards. And there's a sleeve board, too—one of those handy little accessories that makes life a lot easier on ironing day.

Notice how solidly the board is supported by the rigid steel braces which hinge it to the case. This feature assures you a rigid ironing surface.

This ironing board is made to be built into the wall between the studding. Fits rough opening 14½ inches wide, 82 inches high and 4 inches deep.

Trim is of clear Fir smoothly sanded, ready to finish to match your other woodwork. Door panels are of 3 ply clear Douglas Fir, of 24 inches long and sets 4 inches above Ironing Board when in use. Shipped in carton set up ready to install. Just cut the plaster and lath between two studding, insert the cabinet and nail on the trim. Shipping weight 50 pounds. Shipped from Factory in Philadelphia, Pa.

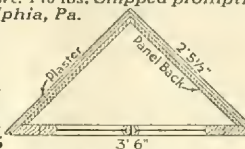
274 HB 888—Built-in Cabinet Ironing Board .....\$5.95



**CORNER CUPBOARD**  
**\$29<sup>50</sup>**

Distinctly Colonial—adds Early American charm to your dining room. Easy to install in any corner of new or old home. Back is completely enclosed to conceal walls behind. Three shelves in upper section, one shelf in lower section. Upper doors glazed with clear glass set with wood stops. Dimensions: 3 ft. 6 in. across front—2 ft. 5½ in. from corner to edge. Height 8 ft. 6 in. Complete with sanded brass hardware. Ready to put together. Smoothly sanded natural wood ready to stain or paint. Ship. wt. 140 lbs. Shipped promptly from Philadelphia, Pa.

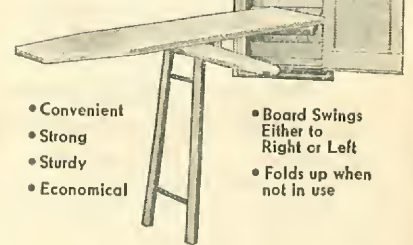
274 HB 1137—  
Pondosa  
Pine...\$29.50  
274 HB 1139—  
Gum...\$33.95  
274 HB 1138—  
Red Oak \$41.45



How cupboard fits corner.

## Swivel Type Built-In CABINET IRONING BOARD

**\$6<sup>75</sup>**



- Convenient
- Strong
- Sturdy
- Economical

- Board Swings Either to Right or Left
- Folds up when not in use

A compact Cabinet Ironing Board that can be used in any position. Large board is securely fastened to cabinet extension by a swivel attachment which permits it to turn either to right or left. Sturdy two-leg center support with rubber padded feet insures a rigid ironing surface at all times.

Large board is 1½ in. thick and provides a full size ironing surface 12¾ in. wide by 50 in. long. Handy sleeve board ¾ in. thick, 5 in. wide and 26 in. long swings out of sight when not in use. Asbestos lined bin at bottom of cabinet for storage of irons. Folds into compact cabinet 4½ in. deep, 14 in. wide and 61 in. high. To install cut plaster and lath between studding, nail cabinet in place with bottom 19¾ in. above floor.

Both ironing boards are of clear Pondosa Pine. Cabinet door is of beautiful 3-ply Douglas Fir. Glass knob, friction catch and hinges for cabinet included. All surfaces smoothly sanded ready to paint.

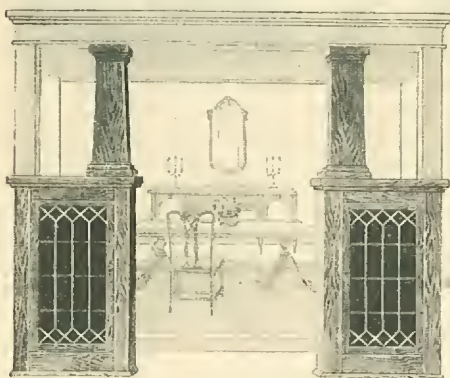
Ship. wt. 40 lbs. Shipped Separately from Factory in Philadelphia, Pa.

274 HB 890—Ironing Board .....\$6.75

FOR LOW FREIGHT RATES  
SEE PAGE 2

Glass door knob and friction catch included on cabinet door. Ironing board will not warp because it is clear Pondosa Pine full 1½-inch thick, 11½ inches wide and 62 inches long. Sleeve board is ¾ inches thick and 5 inches wide, 24 inches long and sets 4 inches above Ironing Board when in use. Shipped in carton set up ready to install. Just cut the plaster and lath between two studding, insert the cabinet and nail on the trim. Shipping weight 50 pounds. Shipped from Factory in Philadelphia, Pa.

274 HB 888—Built-in Cabinet Ironing Board .....\$5.95



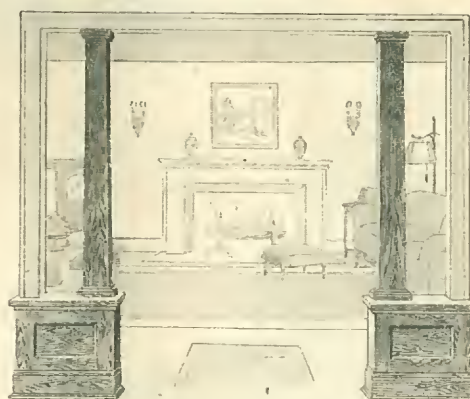
**BOOKCASE COLONNADE** **\$29<sup>35</sup>**

A handy book case and a handsome colonnade all in one. Appropriate for practically any size room—at Wards low price a most economical means of improving your home.

Suitable for openings 7 to 12 feet wide and up to 8 feet high. The columns are 6 inches square, and 3 feet 10 inches long—tapered slightly at top. They can be cut down to fit openings less than 8 feet in height. Book cases are 2 feet wide by 4 feet 2 in. high. The depth inside is 8 inches. Fitted doors are glazed with leaded clear glass and shelves are adjustable. Backs are neatly paneled. We include all necessary hardware—not attached. Shipping weight 200 lbs. Shipped Separately from Factory in Philadelphia, Pa.

274 HB 823—Yellow Pine. Per Pair .....\$29.35  
274 HB 824—Oak. Per Pair ..... 35.65

Jambs and trim not included. For prices see Pages 74 and 78.



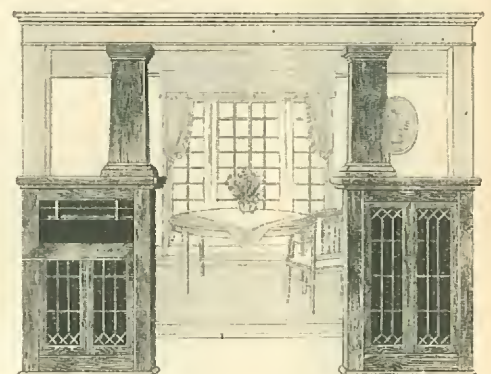
**MISSION COLONNADE** **\$15<sup>95</sup>**

The proportions of this Mission style colonnade are so well balanced that it is adaptable to most any style of decoration. It forms a simple, distinctive entrance way for living room, dining room or hall.

Pedestals are 24 inches wide by 24 inches high by 10 inches deep. Columns are 6 inches square slightly tapered at top and 6 feet long. They may be cut down to fit any opening less than 8 feet in height. This colonnade is suitable for opening 7 feet to 12 feet wide and any height up to 8 feet. Furnished in natural wood, carefully machined and smoothly sanded ready for finishing. Average shipping weight 200 pounds. Shipped Separately from Factory in Philadelphia, Pa.

274 HB 818—Yellow Pine. Per Pair .....\$15.95  
274 HB 820—Oak. Per Pair ..... 23.50

Trim and jambs not included. For prices see Pages 74 and 78.



**BOOKCASE and WRITING DESK** **\$37<sup>50</sup>**

You'll like this combination writing desk and bookcase colonnade. It's suitable for openings 8 to 12 feet wide and up to 8 feet high. Columns are 7 in. square slightly tapered at top and 3 feet 10 in. high. May be cut down to fit any height less than 8 feet. Cases are 2 ft. 6 in. wide by 4 ft. 2 in. high and 10 inches deep inside.

Shipped complete with all hardware. Furnished in natural wood smoothly sanded to take any finish. Two leaded clear glass doors in each bookcase. Writing desk (for left hand side only) has convenient shelves, pigeon holes and strong drop leaf writing shelf. Ship. wt. 250 lbs. Shipped Separately from Factory in Philadelphia, Pa.

274 HB 821—Yellow Pine. Per Pair .....\$37.50  
274 HB 822—Oak. Per Pair ..... 43.25

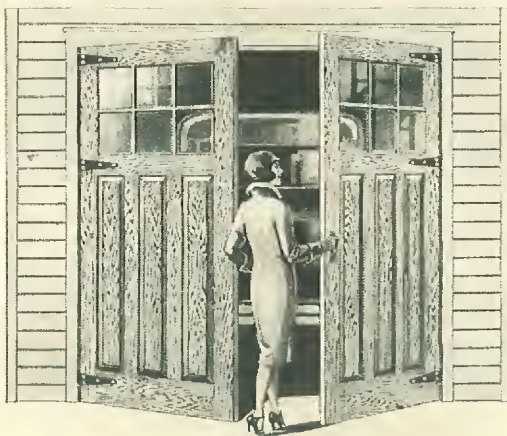
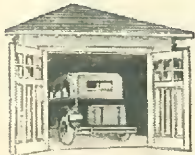
Jambs and trim not included. For prices see Pages 74 and 78.



# Popular Type GARAGE DOORS—Saving Priced

## SWINGING TYPE DOORS

**\$12<sup>80</sup>**



### Low Priced for Extra Savings

Strongly constructed doors of edge-grain best grade clear Douglas Fir. These doors are built with the same care as our best interior doors for your home. All four corners are mortised and tenoned joined and securely held with steel pins. With ordinary care, this construction prevents sagging and bulging, but in addition, these doors have the same rigid construction at the center cross-member, bracing it further against strain or weakening. This fine construction assures you of a door as good as can be bought, capable of giving you the long service you want. Wards low price is due to our economical method of selling direct to you by mail—and shipping to you direct from the mill.

Six light windows with good clear glass securely held in place by wood stops. Door comes to you smoothly sanded and ready for painting. Full 1 3/4 inches thick. Each door is 4 feet wide by either 7, 7 1/2 or 8 ft. high. Shipping weight per pair, 230 lbs. Shipped from Chicago or Eastern Iowa. Be sure to state height.

274 HB 496—5 feet wide by 7 feet high. Per pair ..... **\$12.80**  
8 feet wide by 7 ft. 6 in. high. Per pair ..... 12.85  
8 feet wide by 8 feet high. Per pair ..... 12.95

For Hinges and Locks See Wards General Catalog.

SEE PAGE 2 FOR LOW FREIGHT RATES



## SLIDING TYPE DOORS

**\$13<sup>60</sup>**



### No Worry About Snow or Wind ... When Doors Slide In!

These doors are for installation on overhead-track, sliding-door hardware. Built of clear Douglas Fir in exactly the same manner as doors at left. They give you every advantage of durability and long service. All door corners and center cross-member made with mortise and tenon joints, securely held with steel pins to prevent sagging or warping.

The elimination of worry about snow blocking the garage, or wind slamming doors into cars, has made this type of door very popular. They may be installed with one section as a service door—or all three as a sliding unit. Will fit any type of sliding door hardware you have.

Windows glazed with good clear glass held with wood stops. Full 1 3/4 inches thick. Door comes to you smoothly sanded and ready for painting. Each door is 2 feet 8 inches wide. The three doors fill opening 8 feet wide. Be sure to state height wanted. Shipping weight per set 250 lbs. Shipped from Philadelphia, Pa.

274 HB 499—8 feet wide by 7 feet high. Per set ..... **\$13.60**  
8 feet wide by 7 feet 6 inches high. Per set ..... 13.65  
8 feet wide by 8 feet high. Per set ..... 13.75

For Sliding Door Hardware See Wards General Catalog.

For Wards BUDGET PLAN SEE PAGE 3

## NEW OVERHEAD SLIDING DOORS

### Just a Slight Pull . . . and Up They Go—Out of the Way!

Here's exactly the garage door you've been waiting for! Let the wind blow its worst—there's no danger of this door slamming into your car as you enter or leave the garage. Let the snow pile knee high—this door slides right up past it! It's the most practical, trouble-free Garage Door—and best of all, it's priced right down where its purchase is a practical investment.

### Even a Child Can Operate It

The Bilt-Rite Overhead Garage Door can be operated by a child. To open it from the outside just give a slight tug on the handle—the counter-balancing weights do the rest. No need of a service door. To open from the inside, just press your foot against the bottom—and up it goes. All pulleys and rollers are roller-bearing. Operates without banging—moves slowly and positively, has no springs or lever to get out of order, safe for women or children.

Cross-braces at the top and bottom hold the door securely in a permanently rigid, sag-proof and warp-proof unit. All former garage door troubles are eliminated. Nothing to balk—nothing to repair—nothing to cause trouble. Every installation is permanent.

Set consists of pair of 274 HB 496 doors (described above) securely doweled and glued into a single rigid unit, and complete hardware, including stranded flexible steel cables, roller-bearing pulleys, adjusting blocks, center hanger and track, side guides, counter weights, two steel cross-braces, special weatherstripping, overhead locking bolt and cylinder night latch.

Requires 8-inch minimum head room over top of door and 8 inches at side to allow space for weights. Shipped from Philadelphia, Pa.

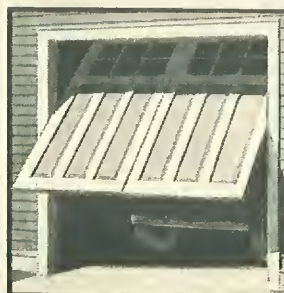
274 HB 495—Door 8 ft. wide by 7 ft. high including hardware. **\$35.95**  
Shipping weight 445 lbs. ....  
Door 8 ft. wide, 7 ft. 6 in. high, including all hardware. Shipping weight 455 lbs. .... 36.45  
Door 8 ft. wide, 8 ft. high, including all hardware. Shipping weight 475 lbs. .... 36.95

Don't tug or drag at your present garage doors. Convert them to this modern, trouble-free type, with the hardware described above. Cross-braces securely fasten any type of door, either double swinging or triple sliding into a single rigid unit. Shipped from Stock.

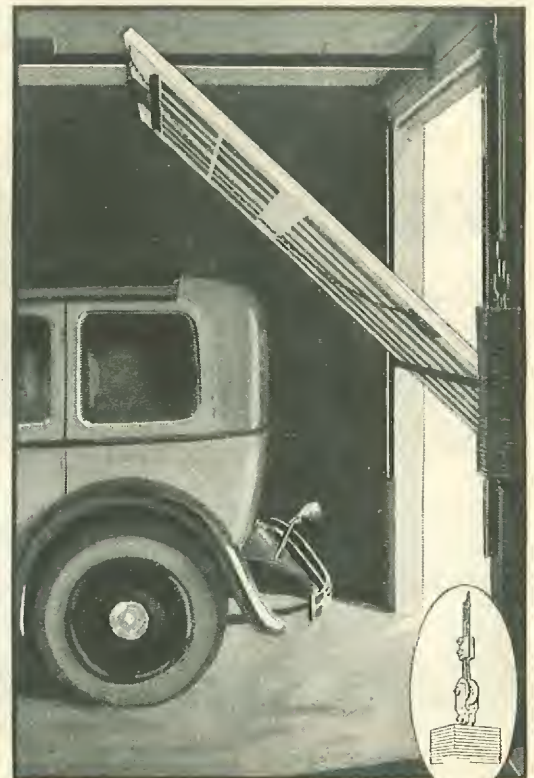
84 HB 3943—Hardware Only. Shipping weight 225 lbs. .... **\$20.95**



This shows the door open. Note that it gives you a clear opening, the full width and height of the door frame. Note simplicity of parts and installation—the secure manner in which the door is fastened in place. Door rests securely in this position—the counter-balancing weights hold it firmly.



This is how door slides from open to closed position. Perfect counter-balancing and no springs permit slow and smooth operation. It may be opened to any position—and will stay there because the counter-balancing weights offset the weight of the doors.



This picture illustrates what little space is required by this door. If your garage provides only 6 inches space between closed door and bumper of your car, it will operate with plenty of clearance. Doors will fit garages with any type of roof. Note also the illustration in the insert showing handy cable adjustment clip.

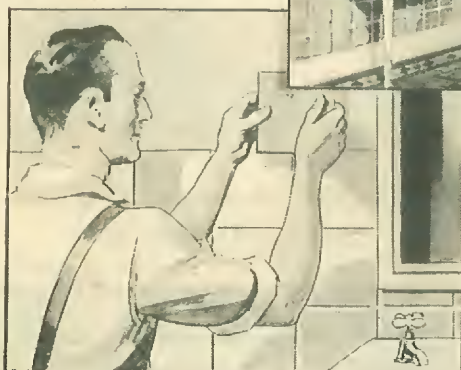
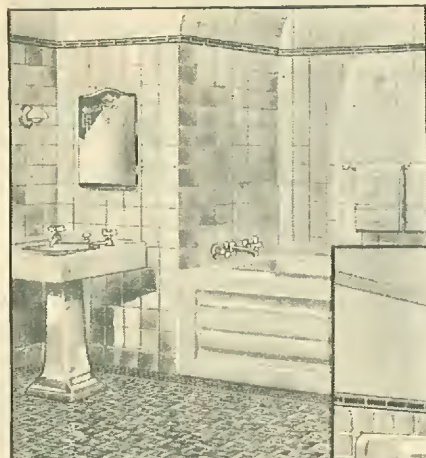
Here again you can see the simplicity of the installation. Large, detailed, pictured directions show you how to put it up.



# KROMA-TYLE for Bath and Kitchen Walls

**28<sup>c</sup>**  
per Sq. foot

**LOOKS LIKE TILE  
FEELS LIKE TILE  
COLORED LIKE TILE  
But—Costs Less than Half as Much!**



CERAMIC tile makes the most beautiful, and long-lasting walls for bathrooms and kitchens. But of course tile is quite expensive, and that's why *Kroma-Tyle* is so popular with modern home builders.

*Kroma-Tyle* is the modern substitute for tile. Its low price helps many thousands of home owners to realize a cherished ambition of bright, colorful, sanitary walls at about *Half* the cost.

*Kroma-Tyle* offers you many of the features of tile—the same lustrous beauty of tile—the same delightful pastel colors of tile—the same sanitary features of tile—everything the same, but the price. One of the most important advantages of *Kroma-Tyle* walls, and one that every woman will appreciate, is their cleanliness—all you have to do is wipe them with a damp cloth. No repainting—no redecorating—no bother; and most important of all—no extra expense.

## Apply Kroma-Tyle Yourself—It's Easy to Do

You can easily put *Kroma-Tyle* on yourself, because it goes on one piece at a time very simply with a special waterproof cement as a binder. The chair rail which is an attractive border (shown in pictures at left) is put directly on the wall in the same way. It can be put on finished plaster or any other porous wall. A special baseboard is not necessary either—you can retain the old one or eliminate it altogether.

*Kroma-Tyle* is a special rust-resisting metal sheet, 6 inches square with baked-on enamel. Slightly beveled edges make it look like real tile. The colors are durable and can be washed and scrubbed for years.

*State color. Always order about 5 feet extra for fitting.*

274 HB 590—*Kroma-Tyle* per square foot. Ship. wt. 8 oz. .... 28<sup>c</sup>

274 HB 591—Chair rail 2¼ by 12 inches. Ship. wt. 4 oz. .... 8<sup>c</sup>

## Special Waterproof Cement for Applying Kroma-Tyle

You need 25 lbs. for each 75 square feet of *Kroma-Tyle*

274 HB 592—25-pound can. Ship. wt. 26 lbs. .... \$2.50

274 HB 593—10-pound can. Ship. wt. 11 lbs. .... 1.00

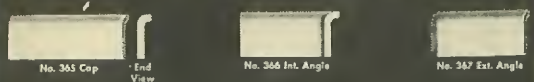
*Shipped from New York City.*

## YOU'LL FIND TILE WALLS IN THE SMARTEST HOMES

### BOX CAP TOP MOULDING FOR WALL TILE



### 6 x 2-INCH BULLNOSE TOP MOULDING



### 4¼ x 4¼-INCH BULLNOSE TOP MOULDING

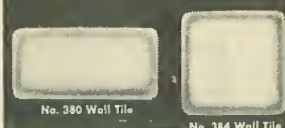


- 274 HB 360—Box Cap 6 by 2 inches. White or Black. Each. .... 14<sup>c</sup>  
274 HB 361—Interior Angle for 360 Cap. White or Black. Each. .... 21<sup>c</sup>  
274 HB 362—Exterior Angle for 360 Cap. White or Black. Each. .... 21<sup>c</sup>  
274 HB 363—Left Stop for 360 Cap. White or Black. Each. .... 21<sup>c</sup>  
274 HB 364—Right Stop for 360 Cap. White or Black. Each. .... 21<sup>c</sup>  
274 HB 365—Bullnose Cap 6 by 2 inches. White or Black. Each. .... 12<sup>c</sup>  
274 HB 366—Interior Angle for 365 Cap. White or Black. Each. .... 18<sup>c</sup>  
274 HB 367—Exterior Angle for 365 Cap. White or Black. Each. .... 18<sup>c</sup>  
274 HB 373—Cap or Ext. Angle. 4¼ x 4¼ in. White or Black. Each. .... 14<sup>c</sup>  
274 HB 373—Interior Angle for 373 Cap. White or Black. Each. .... 21<sup>c</sup>  
274 HB 374—Exterior Angle for 373 Cap. White or Black. Each. .... 21<sup>c</sup>  
274 HB 374—Interior Angle for 374 Base. White or Black. Each. .... 21<sup>c</sup>

Wards Wall Tile is strictly first quality—as fine as you can buy—yet priced to save you money.

Two patterns of wall tile are listed below—at left three styles of caps or mouldings for finishing off top of tile wall—at right three patterns for baseboards. For each inside corner of room you need one interior angle for both cap and base. Any projecting corners need an exterior angle for both cap and base. Instructions with order. Average ship. wt. per sq. ft. 5 lbs. *Shipped promptly from Warehouse near Cincinnati, Ohio.*

### WALL TILE



### Glazed Wall Tile

- 274 HB 380—Size 6 by 3 inches. Per sq. foot. White. .... 45<sup>c</sup> Black. .... 50<sup>c</sup>  
274 HB 384—Size 4¼ by 4¼ in. Per sq. foot. White. .... 45<sup>c</sup> Black. .... 50<sup>c</sup> Green, Blue or Orchid. Per sq. foot. .... 51<sup>c</sup>

Bead Tile is used for covering the sharp edge of exterior wall angles.

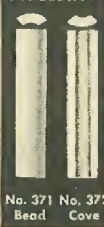
274 HB 371—Bead 6 by 1¼ inches. White. .... 20<sup>c</sup> Black. .... 24<sup>c</sup>

Cove Tile is used for lining interior wall angles.

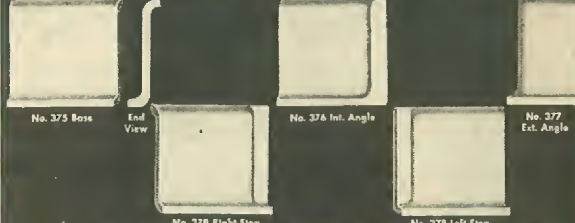
274 HB 372—Cove 6 by 1¼ inches. White. .... 20<sup>c</sup> Black. .... 24<sup>c</sup>

Per Lineal Ft. .... 24<sup>c</sup>

### BEAD AND COVE MOULDING



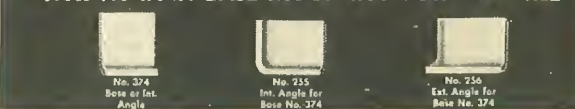
### 6 x 6-INCH BASE MOULDING FOR WALL TILE



### 6 x 2-INCH BASE MOULDING FOR WALL TILE



### 4¼ x 4¼-INCH BASE MOULDING FOR WALL TILE



- 274 HB 375—Base 6 by 6 inches. White or Black. Each. .... 27<sup>c</sup> Green, Blue or Orchid. *State color.* Each. .... 35<sup>c</sup>  
274 HB 376—Interior Angle for 375 Base. White or Black. Each. .... 42<sup>c</sup> Green, Blue or Orchid. *State color.* Each. .... 52<sup>c</sup>  
274 HB 377—Ext. Angle for 375 Base. White or Black. Each. .... 42<sup>c</sup> Green, Blue or Orchid. *State color.* Each. .... 52<sup>c</sup>  
274 HB 378—Left Stop for 375 Base. White or Black. Each. .... 42<sup>c</sup> Green, Blue or Orchid. *State color.* Each. .... 52<sup>c</sup>  
274 HB 379—Right Stop for 375 Base. White or Black. Each. .... 42<sup>c</sup> Green, Blue or Orchid. *State color.* Each. .... 52<sup>c</sup>  
274 HB 368—Base 6 by 2 inches. White or Black. Each. .... 12<sup>c</sup>  
274 HB 369—Interior Angle for 368 Base. White or Black. Each. .... 18<sup>c</sup>  
274 HB 370—Exterior Angle for 368 Base. White or Black. Each. .... 18<sup>c</sup>  
274 HB 374—Base or Interior Angle. 4¼ x 4¼ inches. White or Black. Each. .... 14<sup>c</sup> Green, Blue or Orchid. Each. .... 17<sup>c</sup>  
274 HB 375—Interior Angle for 374 Base. White or Black. Each. .... 21<sup>c</sup> Green, Blue or Orchid. *State color.* Each. .... 27<sup>c</sup>  
274 HB 376—Exterior Angle for 374 Base. White or Black. Each. .... 21<sup>c</sup> Green, Blue or Orchid. *State color.* Each. .... 27<sup>c</sup>



# Big Savings on Colorful Floor Tile

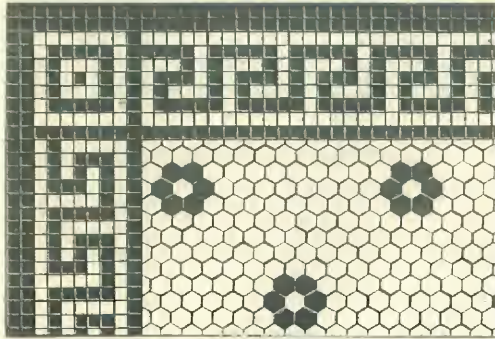
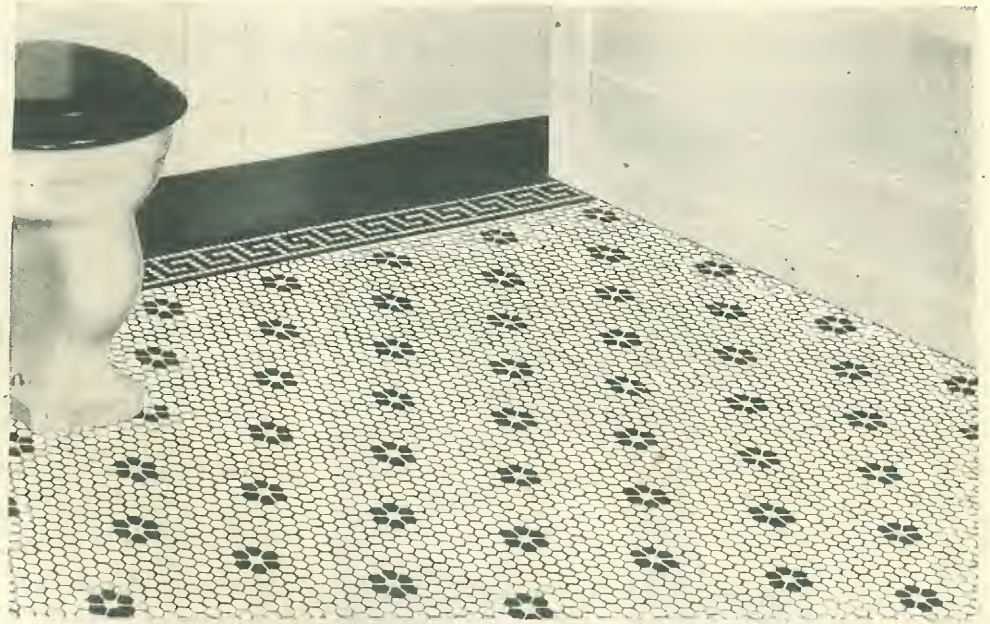
Tile floors are often considered too expensive for the modest home. But at Wards low price you can have beautiful, durable, easy-to-keep-clean tile floors for little more than the price others ask for good linoleum. See for yourself how little the attractive patterns shown below cost when you buy at Wards.

Modern home construction demands the extensive use of floor tile—in bathroom, sun room and kitchen. It's easy to understand why this is true—tile lasts a lifetime, it's sanitary, easy to keep clean and adds to the appearance as well as the value of your home.

## HOW TO ORDER FLOOR TILE

Tile comes securely glued to sheets of paper with the proper spacing allowed between each piece for cementing. When ordering always be sure to allow a little extra for waste in fitting when laying. If your floor is square with no irregularities, figure square feet of tile required by multiplying width of room by length. If room has any irregularities, a sketch giving measurements must always be included when ordering patterned tile so correct amount of border needed can be determined.

All Floor Tile shipped from Factory near Cincinnati, O. On orders for less than 30 sq. ft. allow 50c extra for boxing.



## MOSAIC FLOOR TILE

Made of 1-inch Squares and Hexagons

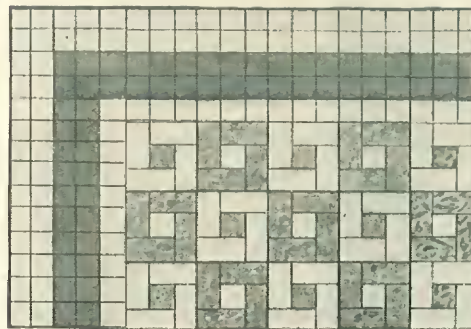
A popular, yet simple floor tile that makes an unusually attractive bathroom floor design. Tile floors are so sanitary, neat and easily cleaned that practically every modern home has tile kitchen and bathroom floors.

Ship. wt. per square foot, 3 lbs. 8 oz.

274 HB 386—Black and white.

274 HB 387—Red and white.

274 HB 388—Blue and white. Per square foot, .....35c



## SQUARE SPIRAL DESIGN

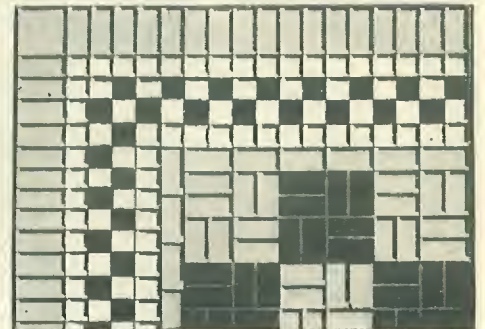
Made of 1-inch Squares and 2 by 1-inch Rectangles

A gay, colorful pattern that will beautify your bathroom, kitchen or sunporch in the latest mode of interior floor decoration. Wide choice of distinctive colors in this original pattern. Ship. wt. per sq. ft., 3 lbs. 8 oz.

274 HB 389—Black and white.

274 HB 390—Red and white.

274 HB 391—Blue and white. Per square foot, .....40c



## BASKET WEAVE DESIGN

1-inch Squares and 2 by 1-inch Rectangles

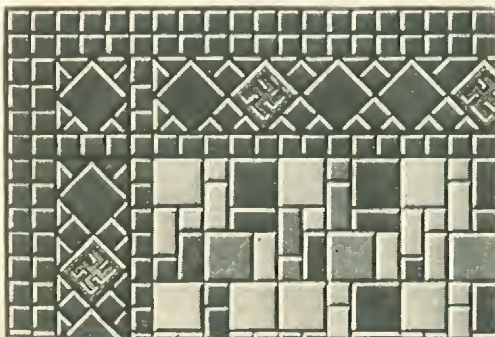
One of the newest and most beautiful designs we carry. Your choice of three attractive color combinations. Modern home builders—and owners—are using it for bathroom, sun porch, and kitchen floors.

Ship. wt. per square foot, 3 lbs. 8 oz.

274 HB 395—Black and white.

274 HB 396—Red and white.

274 HB 397—Blue and white. Per square foot, .....40c

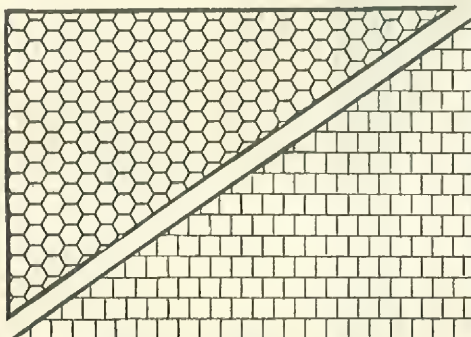


## FLAGSTONE PATTERN

Made of 1 and 2-inch Squares and 2 by 1-inch Rectangles

If you have a Spanish type home you'll be quick to appreciate the beauty of this distinctive pattern and you'll like its unusually low price. Just the thing for sun porch, terrace, breakfast room or hearth. In three beautiful shades of brick red, this floor tile gives the effect of antique flagstones. Ship. wt. per square ft., 3 lbs. 8 oz.

274 HB 398—Per square foot, .....35c



## PLAIN WHITE TILE

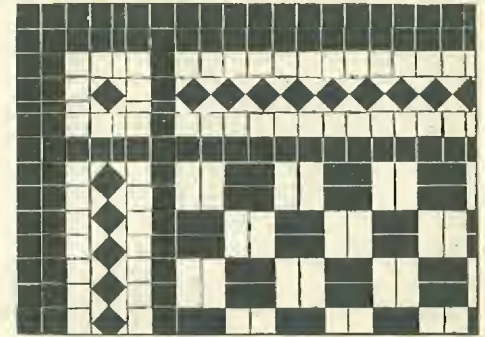
Upon entering a bathroom the floor is noticed first. And there is nothing so outstanding and beautiful as the simplicity of white tile. It's so clean and neat, giving that much desired sanitary atmosphere. And at Wards prices are lower, too. Average shipping weight per square foot, 3 pounds 8 ounces.

1-inch Hexagons

274 HB 385—Per square foot, .....30c

¾-inch Squares

274 HB 383—Per square foot, .....30c



## BASKET WEAVE PATTERN

Made of 1-inch Squares and 2 by 1-inch Rectangles

A simple, yet very effective pattern—one that will beautify your bathroom, kitchen or sun room and at the same time give you a sanitary, waterproof, easily cleaned floor.

Ship. wt. per square foot, 3 lbs. 8 oz.

274 HB 392—Black and white.

274 HB 393—Red and white.

274 HB 394—Blue and white. Per square foot, .....40c



# SAVE at Wards on LUMBER-26 IN CAR LOAD LOTS—DIRECT FROM THE MILL



Wards can furnish any kind of lumber you need in carload lots. If you are going to build a house or barn you will need a full carload of lumber. Just send us a list of all the materials you need—joists, studding, lath, wood shingles, siding, etc.—and we will quote you the lowest possible delivered price. There is no obligation on your part to buy—this estimating service is absolutely FREE.

Wards can save you money on lumber in carload lots because we deal direct with the largest saw mills in all parts of the country. We ship direct from these mills to you, thus eliminating all re-handling charges, in-between profits and unnecessary expense. Large quantities of lumber are always carried in stock at the mills. You get exactly what you want and get it quick.

Every piece of lumber sold by Wards is carefully graded according to standards adopted by the Manufacturers' Associations and in accordance with the United States Bureau of Standards specifications.

Expert lumbermen carefully examine every piece of lumber. It must meet the highest standards of quality for the grade specified. That's why you can depend on getting lumber of the grade you want or better, from Wards.

**IMPORTANT**—The kind of lumber used in different parts of the country varies—for example, yellow pine framing lumber is used exclusively in some sections and fir in other. All woods are not carried at each mill—our quotation will be made on the kind of lumber carried at mill nearest you.

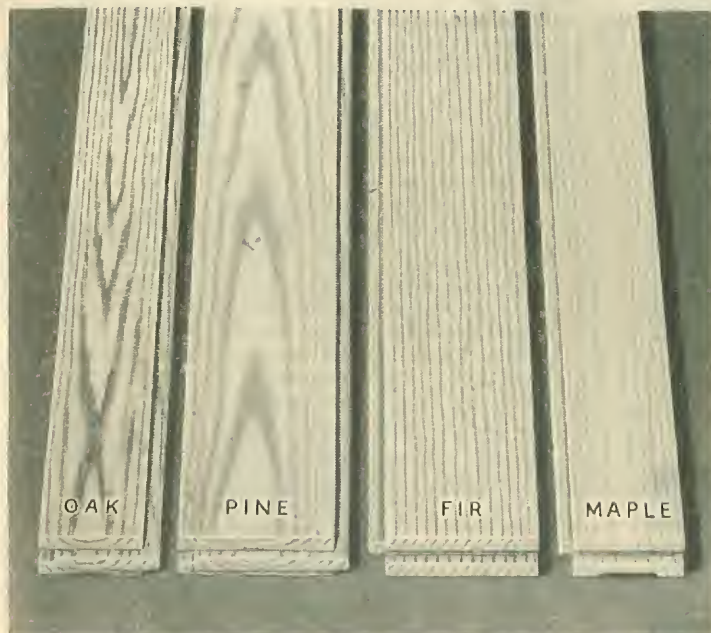
## Write for Free Estimates on Lumber

When sending us a list of the lumber you need, be sure to tell us the items you want, the number of pieces, the sizes and grades. We can save you the most, if you tell us the purpose for which the material is to be used. We will quote you the lowest possible delivered cost.

Item	Standard Trade Size, Inches	Standard Finished Size, Inches	Woods and Grades	Lengths
Barn or Drop Siding Pat. No. 116	1x6 1x8	3/4 x 5 1/2 3/4 x 7 1/4	Fir—B&Btr. and "C" Pondosa Pine—"C" and No. 1 & Btr.	Mixed or Specified
Drop Siding Pat. No. 106	1x6	3/4 x 5 1/2	Fir—B&Btr. and "C" Yellow Pine—B&Btr. and No. 1 Common	Mixed or Specified
Drop Siding Pat. No. 117	1x6	3/4 x 5 1/2	Fir—B&Btr. and "C" Yellow Pine—B&Btr. and No. 1 Common	Mixed or Specified
Bevel Siding	1/2 x 4 1/2 x 6 1/2 x 8 3/4 x 8 3/4 x 10	1/2 x 3 1/2 1/2 x 5 1/2 1/2 x 7 1/2 3/4 x 7 1/2 3/4 x 9 1/2	Redwood—Clear and "A" Cedar—Clear and "A" & Btr. Cypress—"B" Yellow Pine—B&Btr.	Mixed
Shiplap or Sheathing	1x8 1x10	2 5/8 x 7 1/2 2 5/8 x 9 1/2	Yellow Pine—No. 1 and No. 2 Common Fir—No. 1 and No. 2 Common	Mixed
Bevel Cribbing	1x4 1x6	3/4 x 3 1/4 3/4 x 5 1/2	Yellow Pine—B&Btr. and No. 1 Common Fir—C&Btr. and Sel. Common	Mixed
Barn Boards	1x8 1x10 1x12	3/4 x 7 1/2 3/4 x 9 1/2 3/4 x 11 1/2	Fir—B&Btr. and Sel. Common Pondosa Pine—No. 1 and No. 2 Common Yellow Pine—No. 1 Common	Mixed or Specified 8 to 16 ft. lengths
Beaded Ceiling and Partition	5/8 x 4 1x4 1x6	3/8 x 3 1/4 3/4 x 3 1/4 3/4 x 3 1/4	Fir—B&Btr. and "C" Yellow Pine—B&Btr. and No. 1 Common	Mixed or Specified
Exterior Finishing Lumber	1x2 to 1x12 1 1/2 x 2 to 1 1/2 x 12 2x2 to 2x12	2 5/8 x 1 1/2 to 2 5/8 x 11 1/2 1 5/8 x 1 1/2 to 1 5/8 x 11 1/2 1 1/2 x 1 1/2 to 1 1/2 x 11 1/2	Fir—B&Btr. Pondosa Pine—B&Btr., "C" Sel. and "D" Sel. Yellow Pine—B&Btr. Cypress—B&Btr.	Mixed or specified
Unstained Shingles	5 to 2—16 long 5 to 2 1/4—18 long 4 to 2—24 long		XXXXXX Perfects—Vert. Grain and Extra Clear Perfections—Vert. Grain Royals—Vert. Grain	
Stained Shingles	5 to 2—16 long 5 to 2 1/4—18 long 4 to 2—24 long		XXXXXX Perfects—Vert. Grain Perfections—Vert. Grain Royals—Vert. Grain	All Standard Colors and Blends
Wood Lath	3/8 x 1 1/2—48 long 3/8 x 1 1/2—32 long		Pondosa Pine—No. 1 and No. 2 Fir—No. 1 and No. 2 Yellow Pine—No. 1 Cypress—No. 2	
Framing and Dimension Lumber	2x2 2x3 2x4 2x6 2x8 2x10 2x12	1 5/8 x 1 5/8 1 5/8 x 2 5/8 1 5/8 x 3 5/8 1 5/8 x 5 1/2 1 5/8 x 7 1/2 1 5/8 x 9 1/2 1 5/8 x 11 1/2	Fir—No. 1 Common and No. 2 Common Yellow Pine—No. 1 Common and No. 2 Common	Specified lengths 6 to 30 ft.
Sills and Timbers	3x4 4x4 4x6 6x6 6x8 8x8	2 1/2 x 3 1/2 3 1/2 x 3 1/2 3 1/2 x 5 1/2 5 1/2 x 5 1/2 5 1/2 x 7 1/2 7 1/2 x 7 1/2	Fir—No. 1 Rough and No. 1 Common S 4 S Yellow Pine—No. 1 Rough and No. 1 Common S 4 S	Specified lengths 6 to 32 ft.
Boards and Strips	1x2 1x3 1x4 1x6 1x8 1x10 1x12		Fir—No. 1 Common and No. 2 Common Yellow Pine—No. 1 Common and No. 2 Common	Mixed or specified lengths 6 to 16 ft.



# Write for FREE ESTIMATES- ON OAK-MAPLE-FIR-PINE HARDWOOD FLOORING



**H**ARDWOOD floors, especially Oak, are so expressive of good taste that many people have the idea that they are expensive but such is not the case at Wards. You can lay Oak flooring over old floors for just a little more than the cost of many perishable floor coverings—while for upkeep and permanent value there is no comparison. Time stands still for oak floors—like fine old furniture, they grow more beautiful with age.

Just tell us the kind, grade and amount of flooring you need. We will quote you a delivered price. This estimating service is absolutely free. You are under no obligation to buy. If you prefer, just tell us the size of your rooms and we will estimate for you the amount of flooring needed as well as quote you the lowest possible delivered price.

**First or Clear Grade** is the best. The face is clear, as the name implies. Comes in lengths 2 to 16 feet with lengths under 4 feet not to exceed 20%.

**Second or Select Grade:** contains some slight imperfections, but is excellent flooring, suitable for all, except the very highest class work. Comes in random lengths 1 1/2 to 16 feet.

**Third Grade or Number One Common:** can be used where a good serviceable floor is wanted without so much regard for the finished appearance. It will admit sound knots and defects which will not affect its wearing qualities.

Art. No.	Kind of Wood	Grade	Size Face
274 HB 980	1/4 Sawed Red Oak	First (Clear)	1 1/2 x 2 1/4 in.
274 HB 982	Plain Red Oak	First (Clear)	1 1/2 x 2 1/4 in.
274 HB 983	Plain Red Oak	Second (Select)	1 1/2 x 2 1/4 in.
274 HB 984	Plain Red Oak	Third (No. 1 Com.)	1 1/2 x 2 1/4 in.
274 HB 985	1/4 Sawed Oak	First (Clear)	3/4 x 1 1/2 in.
274 HB 987	Plain Red Oak	First (Clear)	3/4 x 1 1/2 in.
274 HB 988	Plain Red Oak	Second (Select)	3/4 x 1 1/2 in.
274 HB 989	Plain Red Oak	Third (No. 1 Com.)	3/4 x 1 1/2 in.
274 HB 990	Maple	First (Clear)	1 1/2 x 2 1/4 in.
274 HB 991	Maple	Second (Select)	1 1/2 x 2 1/4 in.
274 HB 992	Maple	First (Clear)	3/4 x 1 1/2 in.
274 HB 993	Maple	Second (Select)	3/4 x 1 1/2 in.
274 HB 951	Flat Grain Yellow Pine	B. & Btr.	2 1/2 x 3 1/4 in.
274 HB 952	Flat Grain Yellow Pine	No. 1. Com.	2 1/2 x 3 1/4 in.
274 HB 958	Flat Grain Yellow Pine	B. & Btr.	2 1/2 x 2 3/4 in.
274 HB 1000	Edge Grain Fir Flooring	B. & Btr. (not end)	2 1/2 x 3 1/4 in.
274 HB 953	Flat Grain Fir Flooring	B. & Btr. (matched)	2 1/2 x 3 1/4 in.



## Wards VENEER PANELS

These 3-ply Fir Veneer Panels are the ideal material for making drawers, table tops, shelves, racks, cabinets and for many other practical purposes. They are excellent for jigsaw, coping saw or band-saw work. Light in weight yet strong enough to hold nails and screws permanently even when they are placed near the edges.

Wards Veneer Panels are made of 3 thin sheets of kiln-dried Douglas Fir securely cemented together with water-

proof glue. The wood grain of the center ply runs opposite to that of the other two plies to give them greater strength and rigidity. Each side is smoothly sanded ready to finish.

Furnished with both sides sound, so either side can be finished with stain, varnish or paint. Ship. wt. per sq. ft. 3/8-in. panels. 1 lb. and 7/8-in. panels 1 lb. 4 oz.

Write for Wards FREE book of Power-Kraft Woodworking Tools.

Be sure to state Article Number and Size.

Width of Panels	174 HB 904—3-ply Sound Both Sides—3/8 in. Thick		174 HB 905—3-ply Sound Both Sides—7/8 in. Thick	
	5 ft. long	6 ft. long	5 ft. long	6 ft. long
16 inches	28c each	34c each	44c each	53c each
18 inches	34c each	41c each	53c each	63c each
24 inches	45c each	54c each	70c each	84c each

## RED CEDAR CLOSET LINING

There is real economy in lining your closets with this fine aromatic red cedar. You will save enough on clothes and fur storage to more than pay for the cost of material. Cedar lining is 3/8 inch thick by 3 1/4 inches wide. It's tongued and grooved

with edges and ends matched like flooring. One carton contains enough to cover 25 square feet.

274 HB 1001—Per carton. Ship. wt. 25 pounds. **\$2.65**  
Shipped from Factory in Chicago.

## Wards STEEL BUILDING ACCESSORIES



**75c**  
8x8 in.

**\$375**  
Each

### Ash Pit Door

You can avoid all the mess and fuss of cleaning your fireplace if you build an ash pit underneath it in the basement. Install Wards Ash Dump listed below in fireplace floor and this door at bottom of the Ash Pit. Door allows pit to be cleaned. Made of pressed steel galvanized and painted black. Frame has flanges to hold door in brick work. Ship. wts.: 6 and 7 lbs.

Shipped from Detroit.

274 HB 919—8 by 8 in. **75c**  
274 HB 920—10 by 8 in. **85c**



### Coal Chute Doors

Constructed of Pressed Sheet Steel with exposed parts galvanized and painted to prevent rusting. Furnished complete with a self closing lock and unbreakable hinges that cannot be opened from outside. Requires wall opening 20 1/2 in. wide by 15 1/4 in. high. 9 in. deep. Ship. wt. 30 lbs. Shipped from Detroit. Outside dim. 21 in. by 26 3/4 in.

274 HB 944—Each. **\$3.75**



**55c** each

### Fireplace Ash Dump

Here's something that will save you a lot of steps and make your home much easier to keep clean. This Ash Dump sets in the floor of the Fireplace below your grate. Allows ashes to fall in an ashpit in the basement. You'll have none of the dirt or dust that ordinarily comes from cleaning the fireplace. Made of heavy steel with tilting doors. Overall size 5 1/2 by 7 inches. Ship. wt. 3 lbs. Shipped separately from factory in Detroit, Mich.

274 HB 921—Each. **55c**



Damper Handle



Damper

**\$360**  
Complete

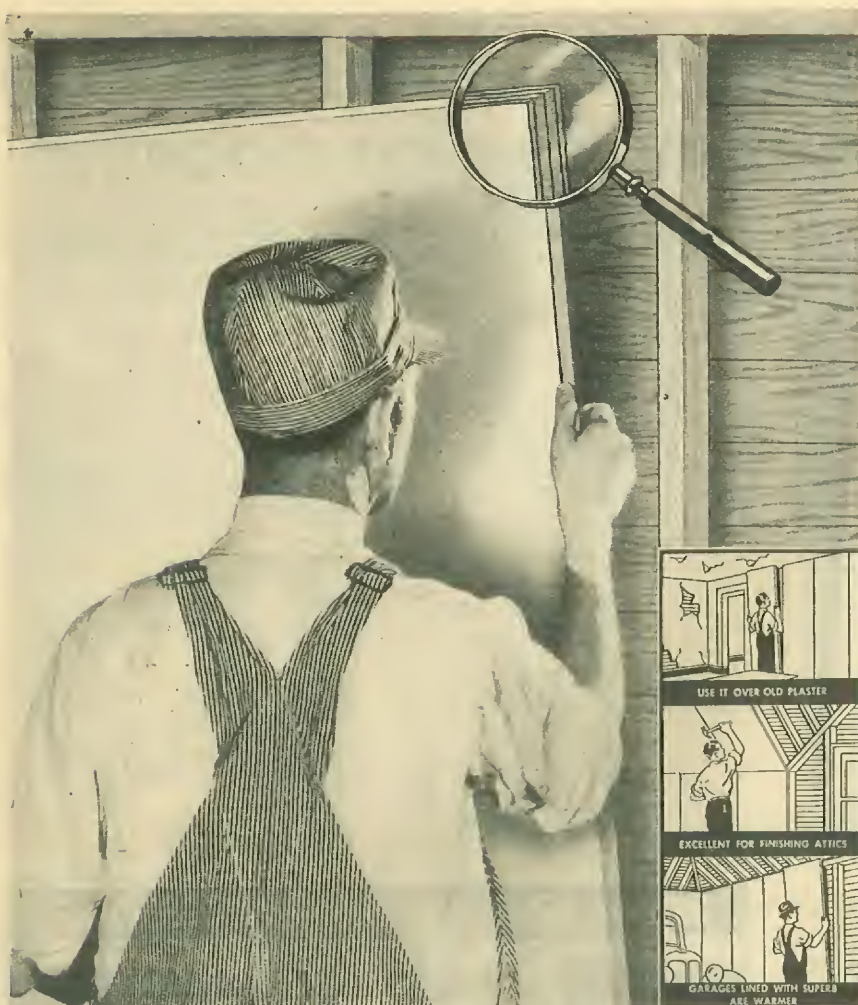
### Adjustable Dome Damper

Permits regulation of draft and allows fireplace to throw heat out into room instead of allowing it to go up chimney. Damper is controlled by a regulating handle which extends out on the face of fireplace. Made with proper flange for fastening into brick work. Overall depth of damper 13 3/4 in. Shipped from Detroit.

274 HB 922—Be sure to state size.

Fireplace Width	Length Over All	Ship. Wt. Complete	Price Complete
30 inches	33 inches	27 pounds	\$3.60
32 inches	35 inches	29 pounds	3.80
36 inches	39 inches	33 pounds	4.00





Use Wards Budget Plan of Monthly Payments. See Page 3

## Wards *Superb* 4-PLY WALLBOARD

# 42<sup>c</sup> SHEET

- Very Economical
- Saves You Work
- Saves You Time
- Saves You Money

32 Inches by 6 Feet

Wards *Superb* 4-ply WALLBOARD is so inexpensive you can make several improvements for what one would ordinarily cost in the usual materials . . . So light in weight, it's easily handled by one man . . . So easy to apply that you can do the work yourself with only a hammer, nails and saw.

A room is completed quickly, because each sheet will just cover the distance between studding set 16 inches apart. When you drive the last nail, the job is done. No painting or papering is necessary because Wards *Superb* Wallboard has tinted surfaces; cream on one side, salmon on the other. But you can easily paint it any color you wish and it will hold the finish splendidly. (Do not paper wallboard.)

*Superb* WALLBOARD is made of four plies of tough, close textured fiber board, firmly cemented and compressed to  $\frac{3}{16}$ -inch thickness. Sheets are about  $\frac{1}{16}$  to  $\frac{1}{8}$  in. narrower than specified to allow for expansion at joints.

Orders for less than three sheets cannot be accepted *Shipped Separately from Stock*. Freight costs but little. See Page 2 for low Freight Rates.

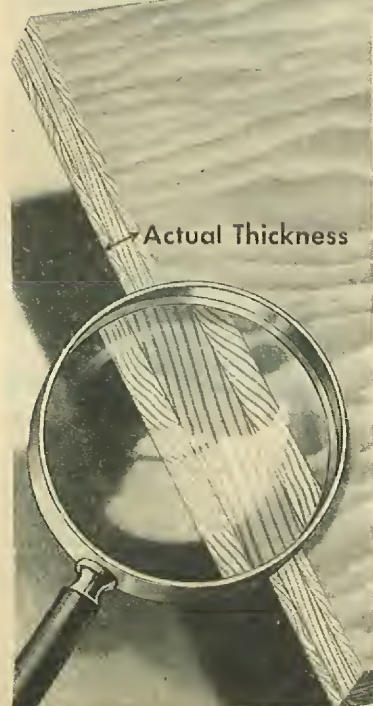
### Sheets 32 Inches Wide

Article Number	Length	Square Feet	Ship. Wt. Sheet	Per Sheet
174 HB 280	6 ft.	16	10 lbs.	42c
174 HB 281	7 ft.	18 $\frac{1}{2}$	11 lbs.	49c
174 HB 282	8 ft.	21 $\frac{1}{2}$	13 lbs.	56c
174 HB 283	9 ft.	24	14 lbs.	64c
174 HB 284	10 ft.	26 $\frac{1}{2}$	16 lbs.	71c
174 HB 285	12 ft.	32	19 lbs.	84c

### Sheets 48 Inches Wide

174 HB 286	6 ft.	24	14 lbs.	64c
174 HB 287	7 ft.	28	17 lbs.	74c
174 HB 288	8 ft.	32	19 lbs.	84c
174 HB 289	9 ft.	36	21 lbs.	95c
174 HB 290	10 ft.	40	24 lbs.	\$1.06
174 HB 291	12 ft.	48	29 lbs.	1.27

## Build or Repair Quickly with *Plycraft*



### Natural Wood Wallboard

- LESS THAN **4<sup>c</sup>** Sq. ft.
- 3 Plies of Beautiful Fir Veneer
  - 4 Times as Strong as Lumber
  - Clean—Light—Easy to Handle
  - A Very Economical Material

*Plycraft* Wallboard is made of three sheets or plies of selected old-growth Douglas Fir rotary-cut veneer firmly cemented together with waterproof glue under hydraulic pressure. The grain of the center ply runs in an opposite direction to that of the other two plies. This principle of construction gives *Plycraft* far greater shear and tensile strength than solid lumber. That's why it is almost impossible to split *Plycraft* . . . why nails and screws can be driven almost at the very edge of a sheet.

Each ply is scientifically dried before gluing and any possibility of shrinking or expanding is entirely eliminated by the alternate directions of the grain. Once in place, *Plycraft* is warp-proof.

*Plycraft* is light in weight and easy to handle. The natural wood surfaces are sanded smooth and will take a beautiful finish, either paint, stain or varnish. It combines all the desirable qualities of lumber with the convenience of wallboard. That's why it is the ideal material for economical building or repairing.

Furnished in sheets 48 in. wide. Face side, sound and sanded for finishing. Side to fit against wall has minor imperfections. 174 HB 901—Be sure to state size when ordering.

Width	Length	Thick-ness	Sq. Ft.	Ship. Wt.	Price
48 in.	72 in.	$\frac{1}{4}$ in.	24	24 lbs.	95c
48 in.	84 in.	$\frac{1}{4}$ in.	28	28 lbs.	\$1.11
48 in.	96 in.	$\frac{1}{4}$ in.	32	32 lbs.	1.26



Quick and economical for making rooms in attics



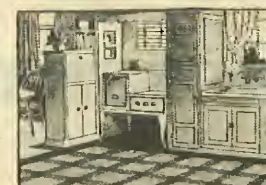
Easily painted—ideal for small pieces of Furniture



Convenient sizes for making beautifully paneled walls



Chicken houses cost less if made with *Plycraft*



It's easy to make sturdy cabinets with *Plycraft*



Enjoy your basement—partitions of *Plycraft* cost little



# Use **WARD'S BUILDING PAPER** generously

## The saving on fuel alone soon repays its low initial cost

**YOU DON'T** build or remodel every day. That is something most people do only once or twice in a lifetime. And it's economy in the end to do the job right while you're at it. For instance—the liberal use of good Building and Insulating Papers pays far more than its cost, in *added* comfort and fuel savings.

Whether you want to keep out the heat from a blistering summer sun—more effectively shut out the penetrating chill of winter's icy blasts—hush the noise of hurrying feet or shrill voices—or do any of many other things Wards building papers and felts are designed to accomplish—you'll find exactly the right material described below.

For years Wards has specialized in *first quality* building papers.

Each of the products we offer represents years of development and practical experience under almost every imaginable climatic condition. And each is priced at a *substantial saving* over the usual cost of similar products elsewhere.

Enjoy the added comfort—and extra savings they assure. Wards Budget Plan of Monthly Payments makes it convenient for you to take full advantage of this profitable investment in comfort and economy—see Page 3.

*All Wards Building Papers Shipped promptly from Stock. Actual (also shipping) Weight shown with each listing below. Freight Rates are on Page 2.*

### RED ROSIN SIZED SHEATHING



**49c**

A Roll

A standard quality, hard, smooth-surfaced, rosin-sized building paper used extensively for general sheathing purposes. Keeps out wind, dampness and moisture, when used under siding and between floors. Made of tough paper pulp stock in three popular weights, each put up in rolls 36 inches wide containing 500 square feet. Its low price makes it economical for protecting newly finished floors when building and many similar uses.

174 HB 218—Light Weight. Actual and ship. wt. 20 lbs. Per roll.....**49c**  
174 HB 220—Medium Weight. Actual and ship. wt. 30 lbs. Per roll.....**74c**  
174 HB 223—Heavy Weight. Actual and ship. wt. 40 lbs. Per roll.....**98c**

### BLUE PLASTER CARDBOARD

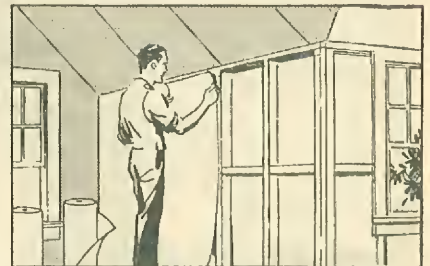
**79c**

A Roll

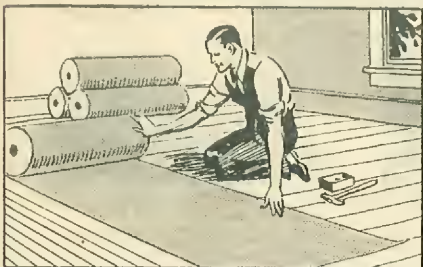
A heavy, durable paper of tough texture that makes an excellent sheathing paper. Similar to red Rosin Sheathing described at left, except heavier and of dark blue color. Used for lining walls and ceilings of attics, basements, summer cottages, garages, etc., to make them warmer.

174 HB 234—Roll of 250 sq. ft., 36 in. wide. Weight 30 lbs. **79c**  
174 HB 235—Roll of 500 sq. ft., 36 in. wide. Weight 60 lbs. **\$1.58**

74 HB 175—Large Headed Tacks for applying. Order one 8-oz. package for each 250 square feet. Per package.....**12c**



### STANDARD DEADENING FELT



**\$1.85**

A Roll

Plenty of this heavy felt between floors and walls deadens sounds and insulates from heat and cold.

Also used under floor coverings to cushion carpets, rugs and linoleum against the wear of pounding heels and to add warmth and comfort to the home.

Unusually low priced for this good quality. A good investment for any home.

Rolls 36 inches wide contain about 450 square feet.

174 HB 237—Heavy Weight. Actual and ship. wt. 50 lbs. Per Roll.....**\$1.85**  
174 HB 232—Extra Heavy Weight. Actual and ship. wt. 75 lbs. Per Roll.....**2.70**

### TARRED ROOFING FELT

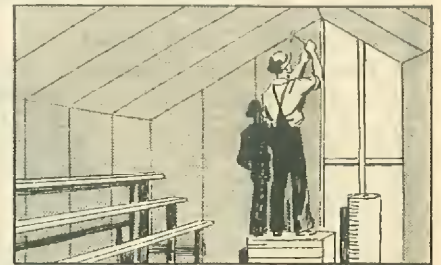
**\$1.98**

A Roll

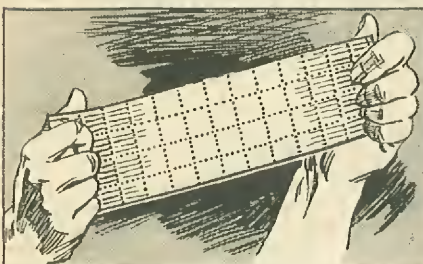
High quality, tough felt saturated with tar. Fine for general sheathing purposes and especially where water-proofing qualities are desired. Because of its low price many customers use it for lining poultry houses, milk houses, garages, etc.

Three or four thicknesses thoroughly cemented together with coal tar pitch and the top surface covered with gravel makes an excellent tar and gravel roof. Also used for roofing and siding on sheds, camps and other temporary buildings.

174 HB 249—Roll of 432 square feet, 32 inches wide weighs 62 pounds. Price per roll.....**\$1.98**



### STRONG REINFORCED SHEATHING



**\$2.48**

A Roll

An exceptionally sturdy, water-proof building paper reinforced with plenty of strong jute strings cross laced one inch apart between two layers of tough, tan color Kraft paper and all bound together with water-proof asphalt. Used by builders everywhere for high class sheathing work. Especially good for use under brick veneer, stucco, etc., as it does not dry out and lasts indefinitely without appreciable deterioration or loss of effectiveness. Its tough texture also prevents tearing when putting it on.

174 HB 225—Roll of 500 square feet, 36 inches wide. Weight 30 lbs. Per Roll.....**\$2.48**

### ASBESTOS INSULATING PAPER

**69c**

A Roll

Used for covering furnace pipes, steam pipes and anything where insulation against heat or loss of heat is desired. Fire-proof. Will not burn even when brought in direct contact with flames. Also used between floors and walls to keep the heat in during the winter and keep the heat out during the summer.

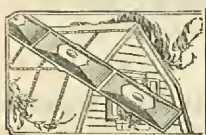
481 HB 7940—State Size.

Width	App. Lgh.	Ship. Wt.	Price
18 in.	60 ft.	11 lbs.	<b>69c</b>
18 in.	150 ft.	26 lbs.	<b>\$1.70</b>
18 in.	300 ft.	52 lbs.	<b>3.25</b>

Roll 36 in. wide and Approx. 150 ft. long, Ship. wt. 52 lbs.....**\$3.25**



### LAP-CAP FASTENERS



**Waterproof  
Seams  
Without  
Cement**

Lap-Kaps are a patented device for fastening seams of Roll Roofing securely, making them water-tight without the use of liquid cement. Use only where roofing is to be laid directly on boards. Set complete with nails, contains enough for one roll.

174 HB 60—Per Set.....**40c**

### RIDGE OR VALLEY STRIPS

Wards fine Superslate quality made especially for use with our Superslate shingles or roll roofing listed on Pages 95 and 96. Ridge strips are 9 inches wide and are put up in rolls of 25 feet weighing 15 lbs. Valley strips are 18 inches wide and are put up in rolls of 25 feet weighing 30 lbs.

*Shipped from same points as listed for plain slate roll roofing on Page 95.*

#### Ridge Strips

174 HB 61—Tile Red  
174 HB 64—Forest Green  
174 HB 62—Blue-Black  
174 HB 76—Color Blend  
Price Per Roll.....**35c**

#### Valley Strips

174 HB 69—Tile Red  
174 HB 71—Forest Green  
174 HB 63—Blue-Black  
174 HB 77—Color-Blend  
Price Per Roll.....**70c**

### ROOFING NAILS

Galvanized and rust-resisting with large flat heads for use with Radio Superslate Shingles.

74 HB 195—1"-inch. Per lb.....**9c**  
74 HB 196—1 3/4"-inch. Per lb.....**9c**  
100 lb. Keg.....**\$8.50**



**Amount of Nails Needed  
for 100 Square Feet**

Kind of Shingles	1 3/4-in. Nails	1-in. Nails
Four-in-One Strip....	5 lbs.	2 3/4 lbs.
Lock Shingles.....	1 3/4 lbs.	1 lb.
Hexagon Strip.....	5 lbs.	2 3/4 lbs.



# INSULATE YOUR HOME for MORE

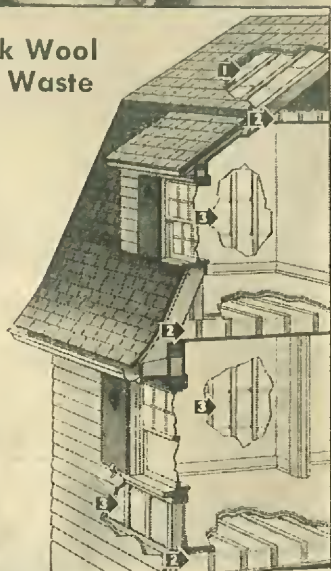


## Insulate with Rock Wool to Eliminate Fuel Waste

**1—Heat Loss Through Roof** — Thirty-five per cent of your heat loss in winter is through the roof. Apply Wards Rock Wool Batts between the rafters and it will completely seal up this greatest source of heat loss.

**2—Heat Loss Through Floors** — Insulate between the floor joists with Wards Granulated Rock Wool and eliminate all floor drafts. This will also deaden sound and prevent noises from penetrating from one floor to another.

**3—Heat Loss Through Walls** — Fifteen per cent of your heat loss in winter is through the outside walls. Wards Rock Wool applied between the studding will eliminate this extravagant loss and greatly reduce your fuel bills.



## Rock Wool Is 3 to 8 Times as Effective

This Chart shows the insulating value of Wards Rock Wool (3 1/4 inches thick) as compared to other types of insulating materials which are 1/2 inch to 1 inch thick.

TYPE of INSULATION	COMPARATIVE VALUES
Wards Rock Wool 3 1/4 inches thick	████████████████████
Insulating Board	1/2-in. ██████████ 1-in. ██████████
Corkboard	1-in. ██████████
Insulating Blankets	1/2-in. ██████████ 1-in. ██████████



This picture shows that Wards Rock Wool is absolutely fire-proof and heat scarcely penetrates it. That's why it's Listed by The Underwriters' Laboratories, Inc., as fire resistant and will reduce your insurance.



Wards Rock Wool Insulation is absolutely odorless and cannot deteriorate. It will not attract rats, mice or other vermin. Tests show that they cannot eat Rock Wool and will not stay close to it.

## SAVE Fuel Bills . . . Increase Comfort . . . with Wards Rock Wool Insulation

Wards Rock Wool Insulation is the newest and most efficient type of insulating material known. It is made by blowing live steam through molten limestone. Looks like raw wool. Is absolutely water-proof, fire-proof, vermin-proof and sound-proof. Will not disintegrate, break down, dust out, sag or settle. Forms a permanent insulation as effective as a solid stone wall eleven feet thick, and even more lasting than your walls. Clean, odorless, light in weight and easy to install. The unusually high insulating value of Rock Wool is due to the countless number of tiny air cells it contains which prevent the passage of heat from one side of the material to the other. It has been thoroughly tested in thousands of homes in every climate and has never failed

to give complete satisfaction. In winter Wards Rock Wool will keep your home 15 to 20 degrees warmer and save you 30 to 40 per cent on your fuel bill. In summer it will make your home 15 to 20 degrees cooler.

Reduce your fuel bill—protect the health of your family—increase the market value of your house—have much greater comfort both in summer and in winter—deaden sound—and eliminate work and fire hazard by not having to force your heating plant . . . all by the simple installation of Wards Rock Wool Insulation.

It comes in two convenient forms—Granulated and in Batts. Use it between wall studs, floor joists and roof rafters. *Shipped promptly from Albany, N. Y.*

### Granulated Rock Wool for Floors and Walls

Convenient granulated form especially adapted for walls and floors in finished homes. Since making the above illustration of Granulated Rock Wool (in bags) we have found that shipping in cartons assures better delivery and makes it much easier to apply. Now it comes in cartons 12 by 12 by 30 in. containing 4 cu. ft. and insulates 13 1/2 sq. ft. 3 1/4 in. thick. Actual and ship. wt. 35 lbs.

274 HB 270—Per Carton . . . . .98c

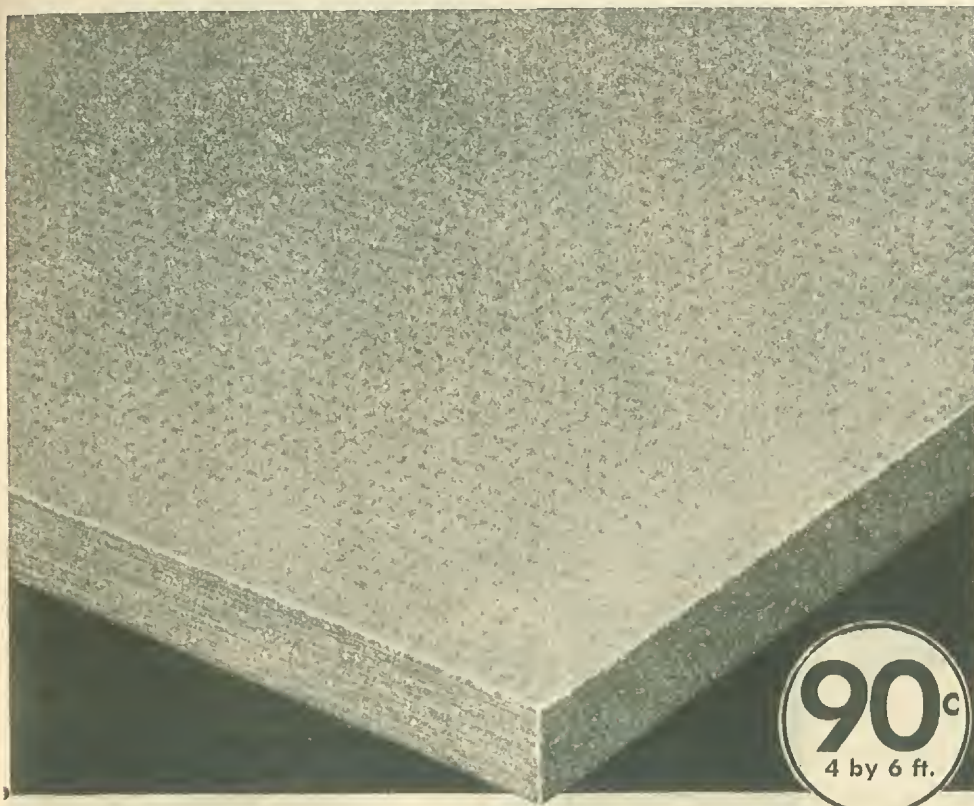
### Rock Wool Batts for Exposed Studding

For use between rafters, exposed wall studding and floor joists. Easy to apply . . . just shove batts between rafters, studding or joists and their natural "springiness" will hold them without fastening. Easily cut with a knife for irregular shapes. No waste—use trim for caulking. Carton contains 9 batts and insulates 18 sq. ft. 3 1/4 in. thick. Ship. wt. 30 lbs.

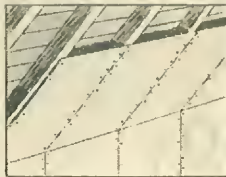
274 HB 271—Per Carton . . . . .\$1.35



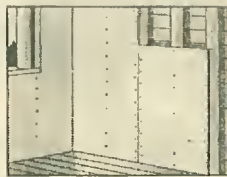
# COMFORT with LESS FUEL.....



Healthy animals are more profitable. Protect them from cold, heat and dampness by insulating with Wards Cel-Board. The low cost will surprise you.



35% of house heat goes through the roof. Line your attic with Wards Cel-Board . . . save this heat, reduce your fuel bill and protect your health.



Wards Cel-Board not only effectively insulates your home but transforms unused space into clean, dry, warm guest-rooms, work-shops or play-rooms.



Wards Cel-Board binds perfectly with plaster providing almost 3 times the tenacity of wood lath. For plastering use shiplapped Cel-Board 174 HB 261.

## YOU Can't Change the Weather . . . but . . . You Can Insulate with Wards Cel-Board

The saving in fuel alone will soon pay for Cel-Board. Stop having cold floors and drafts which cause discomfort, colds and endanger the health of your wife and children. Makes your home about 10 to 20 degrees warmer in winter and saves 20 to 30 per cent of your fuel bill. Stops the work and fire danger of forced furnaces. And in summer no sleepless nights in oven-like bedrooms. Cel-Board makes your house 10 to 15 degrees cooler by keeping out the heat of the sun.

### Cel-Board Is a Fine, First Quality Insulating Board

Cel-Board is the product of one of America's large, well-known insulating board makers. It has all the advantages so widely advertised for this type of material. Insulation—sound-deadening—ease of handling—ease of sawing without splitting or cracking. Unequaled for finishing attics and basements or building new rooms in your home.

The special construction of Cel-Board gives it a firm, uniformly textured body—is not built of "layers"—that is knit into a solid unit and highly compressed when manufactured. This gives it great density and structural strength. Nail heads cannot pull through it in any practical use. Each fiber is waterproofed at the mill. Heat cold and moisture will not affect it—it will not rot.

Use it for lining walls, floors and ceilings in homes, garages, barns and all types of farm buildings. May be applied over old, cracked plaster.

You don't have to build a new house to gain these benefits. Attic insulation seals up the biggest source of heat loss. It is so easily installed that it is generally advised for homes already built. The cost is moderate and fuel savings will soon pay for it.

Easy to apply . . . just nail it directly to the rafters, joists and studding. Easily handled—quickly applied. Its neutral tan color blends with almost any decorative scheme, or it may be painted any desired tone.

### Specifications for Square Edge and Shiplapped Cel-Board

274 HB 260—Wards Cel-Board with Square Edges. (Do not use as plaster base.)

Size of Sheet	Square Feet Per Sheet	Ship. Wt. Per Sheet	Price Per Sheet
4 by 6 ft.	24	17 lbs.	90c
4 by 7 ft.	28	20 lbs.	\$1.06
4 by 8 ft.	32	23 lbs.	1.22
4 by 9 ft.	36	26 lbs.	1.37
4 by 10 ft.	40	29 lbs.	1.52

274 HB 261—CEL-BOARD with Shiplapped Edges for use as plaster base.

Size of Sheet	Square Feet per Sheet	Ship. Wt. per Sheet	Price per Sheet
1 1/2 by 4 ft.	6	5 lbs.	23c

Shipped promptly from Stock in Albany, N. Y. Freight is fast and costs less. See Page 2 for Rates.

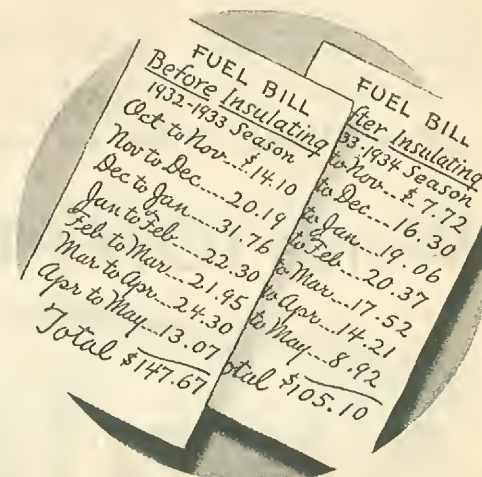
## It's wasted heat that melts the snow on your Roof



### Keep That Lost Heat Indoors

It's the heat you lose that melts the snow on your roof. Either Wards Rock Wool or Cel-Board Insulation will keep that heat indoors for your comfort, protection and economy. Insulated homes never have drafty stairs, hard-to-heat rooms or cold floors. They're 10 to 20 degrees warmer on the same amount of fuel.

Insulated homes are 10 to 20 degrees cooler in summer. The blazing sun showers heat into uninsulated homes making bake-ovens of your rooms. Put a layer of insulation in your home and have a perfect barrier against heat.



### Stop Wasting Money on Fuel

You are losing cash as well as comfort every day you postpone insulating your home. Insulating a weather-stripped, storm-sashed house saves from 20 to 30 per cent of the fuel bill.

This saving will soon pay for the insulation. The comfort and many years of fuel savings are free. You will make money on your purchase.

And—insulating your home with Wards Rock Wool or Cel-Board increases its market value.



# Wards Atlas Smooth Surface Roofing

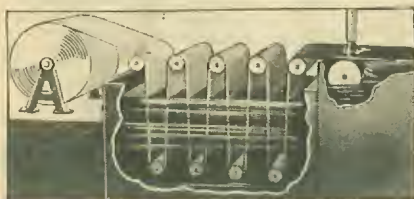
## MULTI DIPPED and DOUBLE COATED for LONG SERVICE—SURE PROTECTION

Thousands of roofs where Wards Atlas Smooth Surface Roofing was applied 15 to 20 years ago are still giving good service. And it's no wonder... we've spared no expense in making Atlas as fine as any FIRST QUALITY Asphalt roofing made. That's why you can depend on Atlas to withstand years of driving rain and melting snow... years of scorching summer sun and bitter winter cold.

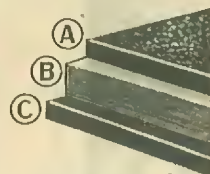
The felt base is made of long, resilient wool and cotton fibers all interwound and bound together to insure tremendous strength and durability. This tough fiber base is dipped many times into a saturating bath of highest quality hot asphalt which coats the fibers and cements them together. The multi-dipping process drives out every bit of moisture and makes a waterproof, elastic foundation that will endure every stress and strain of long service.

Both sides of the felt receive an equally heavy coating of water-proof asphalt, especially selected for its ability to resist cracking, peeling, hardening, blistering and drying out. Finally a thick coat of flake mica is sprinkled on the top to prevent any possibility of sticking in the rolls.

No wonder Wards Atlas Roofing defies weather and wear for years!



This picture shows how the felt base used in Wards Atlas Roofing is completely saturated with hot asphalt. Any moisture present is completely driven out of the felt before the heavy coatings of asphalt are applied.



Cross Section of Atlas Roofing

B—Saturated felt base.  
A and C—The heavy double coating of high grade asphalt of equal thickness.

### Use on New Roofs or Over Old Wood Shingles

For new buildings—for re-roofing—for short time protection—no matter what type of service you want, Wards Atlas Roofing will fill the need and save you money. It is furnished in three weights all of which are listed at the right. Extra Heavy Weight will give the longest service because the felt base is slightly heavier and contains more saturant and coating. Heavy Weight and Medium Weight will give just as good protection but won't last quite as long.

Wards Atlas Roofing is suitable for any roof having a pitch of 1½ in. or more per running foot. It's easy to put on... just nail it to the roof boards or over old roofing or wood shingles. For over old roofing order rolls with 1¾-in. nails, for new roofs order rolls with 1-in. nails.

For patented Lap-kap Fasteners see Page 91.

Rolls are 36 in. wide and contain 108 sq. ft., covering 100 sq. ft. of roof surface, allowing 2 in. for laps. Large head galvanized roofing nails, cement for laps, and complete instructions for laying included with each roll.

Rolls Shipped Separately from Albany, N. Y., Baltimore, Md., York, Pa. or Northern New Jersey. For Freight Rates see Page 2.

**Wards BUDGET PLAN—See Page 3**

**\$1.90**  
ROLL

RESISTS FIRE  
Inspected and  
LABELED  
By Underwriters  
Laboratories, Inc.

### Extra Heavy Weight

- Weight per Roll—65 Pounds
- Made to Last 16 to 18 Years

Heaviest long-fiber felt with an extra heavy coating of finest water-proof asphalt. At Wards low price, it will give sure protection at a cost of about 10¢ per roll per year. Use on houses, barns, garages, etc. where extra long, trouble-free service is desired. Labeled by Underwriters' Laboratories, Inc. as fire resistant. This means it provides sufficient protection from flying sparks and burning embers to save up to 12% on insurance as compared to wood shingles. Actual and ship. wt. per roll, 65 lbs.

274 HB 10—With 1-in. nails. **\$1.90**  
Per Roll.  
274 HB 11—With 1¾-in. nails. **2.00**  
Per Roll.

### Heavy Weight

- Weight per Roll—55 Pounds
- Made to Last 14 to 16 Years

Made of the same fine quality raw materials but just a little lighter and won't last quite as long as Extra Heavy Weight. However you will find this an excellent roofing for your home, garage or barn. Wherever permanent, long lasting protection is wanted, Heavy Weight provides it at remarkably low cost. It is also listed by the Underwriters' Laboratories, Inc. as fire resistant and will save you up to 12% on insurance as compared with wood shingles. Actual and ship. wt. per roll 55 lbs.

274 HB 28—With 1-in. nails. **\$1.65**  
Per Roll.  
274 HB 29—With 1¾-in. nails. **1.75**  
Per Roll.

### Medium Weight

- Weight per Roll—45 Pounds
- Made to Last 12 to 14 Years

A good dependable roofing for garages, poultry houses and other farm buildings where sure protection is essential and an extra long wearing material is not so necessary. Much finer than ordinary roofing of this weight. Made of the same fine materials and with the same dependable construction as other weights of Atlas Smooth Surface Roofing. Easy to apply—you can do it yourself. Actual and ship. wt. per roll 45 lbs.

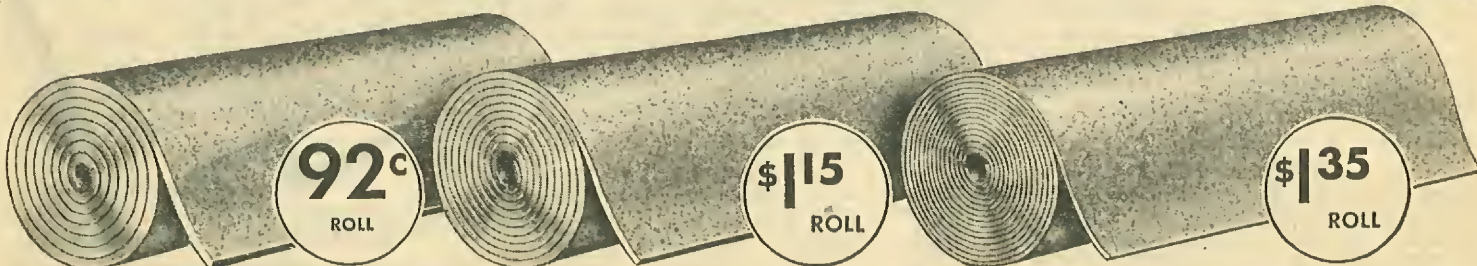
274 HB 30—With 1-in. nails. **\$1.40**  
Per Roll.

**\$1.40**  
ROLL

**\$1.65**  
ROLL

RESISTS FIRE  
Inspected and  
LABELED  
By Underwriters  
Laboratories, Inc.

# Wards LOW PRICE Smooth Surface Roll Roofing



**92¢**  
ROLL

**\$1.15**  
ROLL

**\$1.35**  
ROLL

### Light Weight—35 Lbs per Roll

Standard quality Asphalt Roofing that will give good protection, but not for so long a time as the medium weight listed at the right. Ideal for temporary buildings. Made of good roofing felt, saturated and coated with asphalt. Rolls contain 108 sq. ft. and cover 100 sq. ft., allowing for 2 in. laps. Packed complete with 1 in. large head roofing nails and cement for laps. Suitable for roofs with 1½ in. pitch or more per running foot. Shipped from same points as Atlas Roofing above. Actual and ship. wt. per roll 35 lbs.

274 HB 87—Per Roll. **92¢**

### Medium Weight—45 Lbs. per Roll

A Medium Weight Smooth Surface Roofing similar to Wards Medium Weight Atlas listed above—but not built to last quite as long. Designed for temporary buildings or wall surfaces where only a few years' service are required. Rolls contain 108 sq. ft. and cover 100 sq. ft. of surface. Packed complete with 1 in. nails and cement for laps. Suitable for roofs having a pitch of 1½ in. per running foot. Shipped from same points as Wards Atlas Roofing. Actual and ship. wt. per roll 45 lbs. Low Freight Rates on Page 2.

274 HB 31—Per Roll. **\$1.15**

### Heavy Weight—55 Lbs. per Roll

Similar to Wards Heavy Weight Atlas Roofing listed above, but not intended to withstand the long, hard wear that Atlas does. However, it is a good, heavy roofing built to give you reliable service and priced to save you money. Rolls contain 108 sq. ft. and cover 100 sq. ft. of surface. Comes packed complete with 1 in. nails and cement for laps. Suitable for roofs having a pitch of 1½ in. per running foot. Shipped from same points as Wards Atlas Roofing. Actual and ship. wt. per roll, 55 lbs. Low Freight Rates on Page 2.

274 HB 26—Per Roll. **\$1.35**





## Wards Superslate Asphalt Roofing

- Choice of 3 Permanent Colors
- Full Weight 90 lbs. per Roll
- Made to Last 16 to 18 Years

For years Wards Superslate Asphalt Roll Roofing has been an unquestioned leader among fine roll roofings. For years it has given thousands of our customers long, dependable service. We've spared no expense in producing a roofing that will give you years of trouble free service. Superslate is made to last 16 to 18 years. You get this sure protection at the lowest possible cost ... about 10c to 12c per 100 sq. ft. a year.

NOW we've improved it ... made it even more attractive by adding bright new, non-fading shades of green and red. Don't confuse these colors with the old, dull, drab colors. They're much brighter and more beautiful.

All colors of Wards Superslate Asphalt Roll Roofing are labeled by the Underwriters' Laboratories, Inc. as fire resistant. This means that Superslate provides sufficient protection from flying sparks and burning embers to save you up to 12 per cent on insurance as compared with wood shingles.

### Specifications

Rolls contain 108 sq. ft. to cover 100 sq. ft. of surface, allowing 2-in. laps. Cement for laps, large head galvanized nails, and instructions for laying included with each roll.

Use 1-in. nails for new roofs; 1½-in. nails for over old roofing or shingles.

Shipped Separately from Factory in Baltimore, York, Pa. or Northern New Jersey.

### Colors and Prices

With 1-in. Nails	With 1½-in. Nails
274 HB 80—Tile Red	274 HB 81—Tile Red
274 HB 82—Forest Green	274 HB 83—Forest Green
274 HB 58—Blue-Black	274 HB 59—Blue-Black
Per Roll . . . \$1.85	Per Roll . . . \$1.95

## Wards Superslate Shingle Design Roofing

- Weight per Roll—90 Pounds
- Made to Last—16-18 Years

Same quality as Wards Superslate Roofing but has black shingle lines, that last the full life of the roofing, embossed on surface.

Rolls contain 108 sq. ft. and cover 100 sq. ft. of roof surface allowing for 2-in. laps. Cement for laps, galvanized nails and instructions for laying included. Suitable for any roof having a pitch of 1½ in. or more per running foot. Average actual and ship. wt. per roll, 90 lbs.

With 1-inch Nails	With 1½-inch Nails
274 HB 40—Red	274 HB 41—Red
274 HB 42—Green	274 HB 43—Green
Per Roll . . . \$2.38	Per Roll . . . \$2.48

Shipped from Same Points as Listed for Superslate Asphalt Roofing at right.

Low Freight Rates on Page 2.

## Wards Standard Slate Asphalt Roll Roofing

- Weight per Roll—75 Pounds

A standard quality, mineral surface, asphalt roll roofing similar to Wards Superslate Asphalt Roofing but lighter in weight and not built to last as long. Made of good quality roofing felt, saturated and coated with asphalt and surfaced with our standard non-fading red and green minerals. Designed especially to give temporary service at the lowest possible cost.

Rolls contain 108 sq. ft. and cover 100 sq. ft. of roof surface, allowing for 2 in. laps. Cement for laps, large head, galvanized roofing nails and complete instructions for laying included with each roll. Suitable for any roof with a pitch of 1½ in. or more per running foot. Actual and ship. wt. per roll 75 lbs.

With 1-inch Nails	With 1½-inch Nails
274 HB 90—Red	274 HB 91—Red
274 HB 92—Green	274 HB 93—Green
Per Roll . . . \$1.70	Per Roll . . . \$1.80

Shipped from Same Points as Listed for Superslate Asphalt Roofing. You can buy your roofing on Wards Budget Plan, see Page 3.

## LONG LIFE is Built into Superslate



### Mineral Surface

Note how the top surface of bright, non-fading minerals is securely embedded in the heavy coating of tough asphalt.

### Asphalt Top Coating

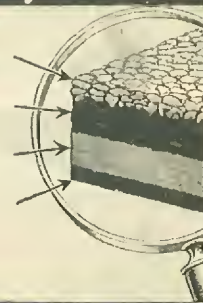
An extra heavy layer of high grade asphalt especially selected for its ability to resist peeling, cracking or blistering.

### Heavy Felt Base

Finest long-fiber roofing felt, thoroughly saturated with hot asphalt to drive out every bit of moisture that is present.

### Asphalt Back Coating

A thinner coating of asphalt on the back to prevent moisture penetrating, the felt base from the underneath side.



## HOW TO ORDER ROOFING

Multiply length in feet of roof by length in feet of rafter on one side. Double this amount to allow for other side. Allow extra for gables or porches. Divide by 100 to find number of rolls or by the roof coverage per bundle to find number of bundles of shingles.

If you prefer, send dimensions of your roof to our Engineering Service Department and we will estimate for you.

If roofing is to be laid over old roof order rolls packed with 1½-in. nails. 1-inch nails are for new roofs. All roll roofing suitable for any roof having pitch of 1½ in. or more per foot.



# You Can Buy Wards *Superslate*

## It is a FINE Quality That Will Last 16 to 18 Years

### HEXAGON STRIP SHINGLES SEE OPPOSITE PAGE FOR CHOICE OF COLOR



**\$1.98**  
A  
Bundle

HERE'S a favorite you'll find on many of the better homes in almost every progressive community. NOW we've improved it—made it even more attractive by adding bright, new, permanent shades of red and green. Don't confuse these brighter and more beautiful colors with the old, dull red and green found in ordinary roofing. Also furnished in Black, Color-Blend, Red Mix and Green Mix—all attractive, permanent, non-fading colors.

#### Standard Hexagon

Each strip 11½ inches wide by 36 inches long—providing a roof with 2-in. head laps. Each bundle of 43 strips covers 50 square feet of roof surface. Actual and shipping weight per bundle, 80 lbs.

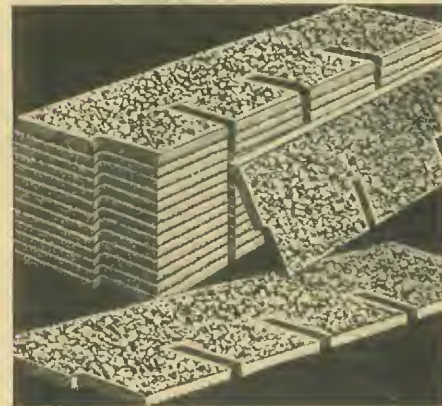
274 HB 134—Tile Red. Per bundle.	} ..... \$1.98
274 HB 135—Forest Green. Per bundle.	
274 HB 131—Blue-black. Per bundle.	
274 HB 143—Color-blend. Per bundle.	} ..... 2.15
274 HB 132—Red Mix. Per bundle.	
274 HB 133—Green Mix. Per bundle.	

Made of the same tough, long-fiber felt . . . the same fine quality asphalt . . . and the same dependable construction as Wards Superslate Roofing described on the preceding page. That's why they usually last 16 to 18 years. Will not blow or curl up. Easy to put on—you can do it yourself—simple instructions in each bundle show you how. For use on any roof with at least ¼ pitch. See Page 91 for Nails. Shipped from Baltimore, Md., York, Pa. or Northern New Jersey. Freight Rates on Page 2. Wards Budget Plan on Page 3.

#### Super Hexagon

Each strip 12 inches wide by 36 inches long—providing a roof with 4½ in. head laps. Each bundle of 52 strips covers 50 square feet of roof surface. Actual and shipping weight per bundle, 100 lbs.

274 HB 151—Tile Red. Per bundle.	} ..... \$2.40
274 HB 152—Forest Green. Per bundle.	
274 HB 148—Blue-black. Per bundle.	
274 HB 150—Color-blend. Per bundle.	} ..... 2.55
274 HB 162—Red Mix. Per bundle.	
274 HB 163—Green Mix. Per bundle.	



### FOUR-IN-ONE STRIP SHINGLES SEE OPPOSITE PAGE FOR CHOICE OF COLOR

**\$1.98**  
A  
Bundle

IF YOU prefer the more conventional design shingles—here they are. They make a wonderfully attractive roof which does full justice to the finest home. The colors are not only permanent, but Wards new red and green colors are much brighter and more beautiful than ordinary roofing. Choice of 4 colors—a new, rich Tile Red, a new, cool Forest Green, a standard Blue-Black, or a beautiful Color-Blend which has rich red, green and deep tan colors artistically blended on each shingle.

#### Double Thickness

Gives 2 complete thicknesses on the roof, with 2-in. head-laps. Ship. wt. per bundle, 100 lbs. Each bundle of 50 strips 10 by 36 inches covers 50 square feet of roof surface.

274 HB 115—Tile Red. Per bundle.	} ..... \$2.40
274 HB 116—Forest Green. Per bundle.	
274 HB 119—Blue-black. Per bundle.	
274 HB 121—Color-blend. Per bundle.	..... 2.55

These convenient four-in-one Strip Shingles can be laid almost four times as fast as individual shingles, yet they have the appearance of individual shingles. Same fine quality as Wards Superslate Roofing on Page 95. Read there about this long-lasting roofing—how it's made—its fine quality—why it always lasts 16 to 18 years—and its proven economy. See on the Opposite Page how it will look on the roof. Our simple instructions show you how to lay it yourself. Use on any roof with at least one-third pitch. Nails listed on Page 91. Shipped from Baltimore, Md., York, Pa. or Northern New Jersey.

#### Triple Thickness

Gives 3 complete thicknesses on the roof, with 4½-in. head-laps. Ship. wt. per bundle, 82 lbs. Each bundle of 33 strips 12½ by 36 inches covers 33½ square feet.

274 HB 122—Tile Red. Per bundle.	} ..... \$1.98
274 HB 123—Forest Green. Per bundle.	
274 HB 112—Blue-black. Per bundle.	
274 HB 114—Color-blend. Per bundle.	..... 2.08



### LOCK SHINGLES see opposite page for choice of color

#### Designed Especially for Roofs Exposed to High Winds

WANT the beauty and distinction of a colorful, slate surfaced, shingle roof at the lowest possible cost? Then this Lock Shingle design will appeal to you. We've made it more attractive than ever by adding new, permanent shades of red and green—much brighter and more beautiful than in ordinary roofing. You may choose a pleasing Forest Green, rich Tile Red, or a harmonious Color-Blend with red, green and tan blended across each shingle.

Superslate Lock Shingles are especially good for use on roofs exposed to high winds—the locking feature prevents blowing or curling up. Nail heads are covered and don't

show. These Shingles are the same long lasting roofing, with the same hard, flint-like surface, as our S perslate described on Page 95. Compare prices with equal quality anywhere and see how much you save at Wards. Labeled and listed by the Underwriter's Laboratories as fire resistant.

Lock Shingles are easy to lay—no special tools or experience are needed, and our simple instructions show exactly how to do the work. Suitable for any roof with at least one-third pitch. Each bundle contains 40 shingles and covers 50 sq. ft. of roof surface. Each shingle is 16 by 18 in.

Order nails specified on Page 91. Average actual and ship. wt. per bundle, 66 lbs. Shipped from Factory in York, Pa. See Freight Rates on Page 2.

#### Tile Red

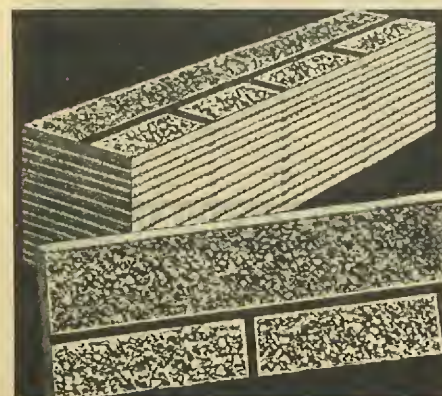
274 HB 94  
Per bundle.  
**\$1.75**

#### Forest Green

274 HB 95  
Per bundle.  
**\$1.75**

#### Color-Blend

274 HB 99  
Per bundle.  
**\$1.90**



### ASPHALT SIDING see opposite page for choice of color

DO you want to modernize the outside of your home—make it warmer in winter and cooler in summer—and end painting worries and expense for years to come? Wards Superslate Asphalt Brick Siding will do it—economically—effectively—attractively. Same hard, flint-like slate surface material as our Superslate Roofing—same long lasting protection—same dependable service. Read about it on Page 95. Applied in strips over the old siding or directly on the wood sheathing. Complete directions in every bundle. You can easily do the job yourself and increase your savings even

more. And what a difference it makes in the appearance. The natural red or tan color of the crushed slate surface has the appearance of brick and retains its fresh, attractive color without fading. It makes your home look like a brick house. You will take pride in its appearance—and its resale will be greatly increased. During the life of the Siding, you will save many painting bills as this siding requires no painting. Labeled and listed by the Underwriter's Laboratories as fire resistant.

Each strip is 36 inches by 6 inches. Each brick design is 8½ inches by 2½ inches. Bundle of 53 strips covers 33½ square feet of surface. Actual and ship. wt. per bundle, 70 lbs. Shipped from York, Pa. or Northern New Jersey. Freight Rates, see Page 2.

#### Red

274 HB 100—Red with Black Mortar Line.  
Per bundle..... **\$1.98**

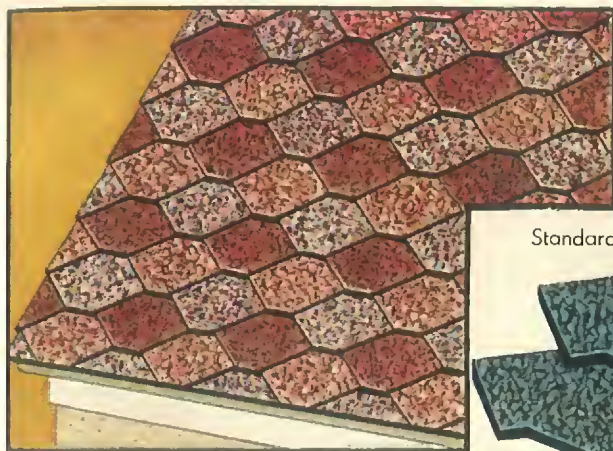
#### Tan

274 HB 101—Tan with Black Mortar Line.  
Per bundle..... **\$1.98**



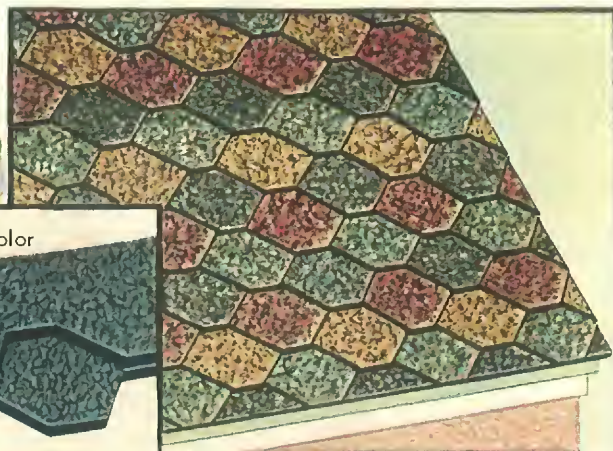
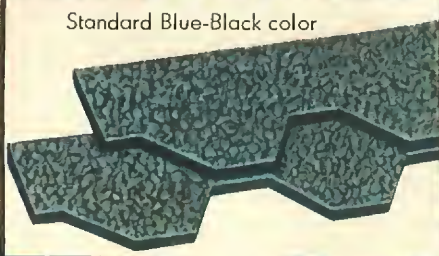
# ASPHALT ROOFING with this assurance-

## The NEW Colors Are Brighter and More Permanent

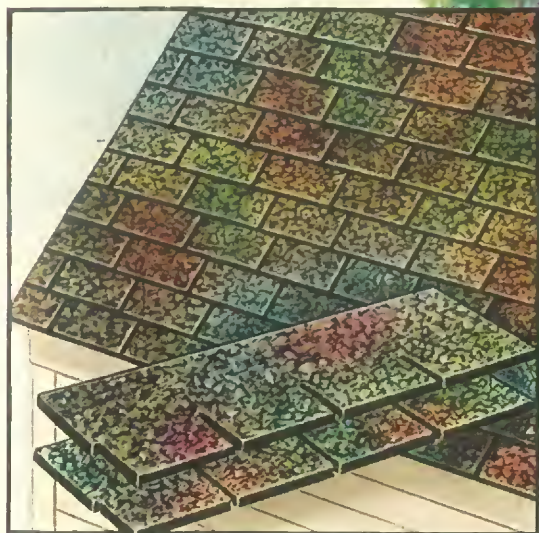


Ward's Hexagon Strip Shingles. Above is our popular Red Mix color. At the right is our standard Blue-Black color.

Standard Blue-Black color



Ward's Hexagon Strip Shingles. This is our attractive Green Mix color. See opposite page for prices and description.



Four-In-One Strip Shingles in Color Blend.

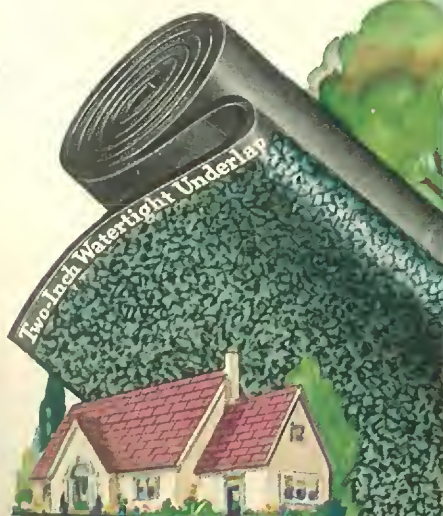


INSPECTED  
AND  
LISTED  
BY  
UNDERWRITERS  
LABORATORIES  
INC.

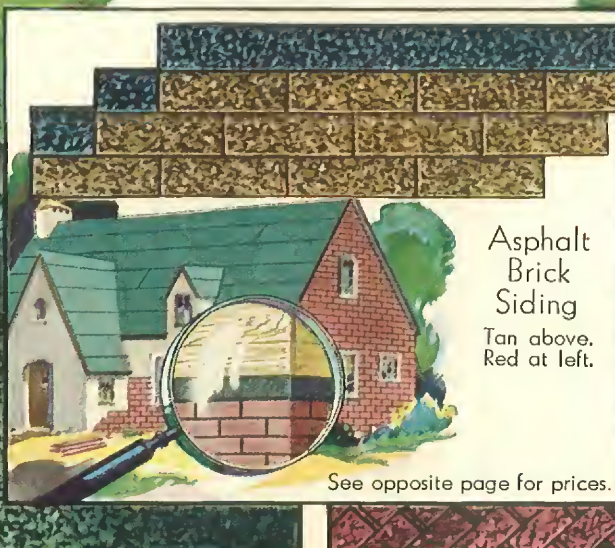


A roof of Color Blend Lock Shingles

## WARDS SUPERSLATE



Plain Slate Roll Roofing in our Forest Green color. See page 95 for description.



Asphalt  
Brick  
Siding

Tan above.  
Red at left.

See opposite page for prices.



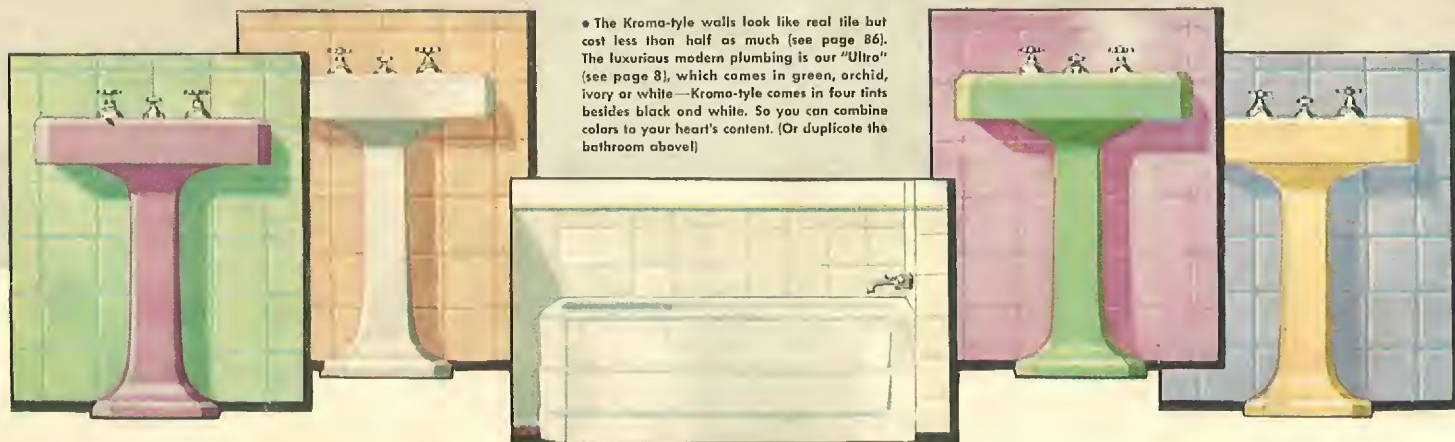
Shingle Design Roll Roofing in our Tile Red color. See page 95 for description.



You can have this ACTUAL bathroom in your home



Fixtures, Plumbing, Kroma-tyle Walls IN YOUR OWN COLOR SCHEME



MONTGOMERY WARD

Chicago Kansas City St. Paul Baltimore Portland Oakland Ft. Worth Denver Albany